

1027	9078	A	1977	3	1421	CLRRLHEFGTRPPPTPLPSSPERERQESP RLGNPKVSATLHGRLPSSFMGKVVWQKQ MYPQYATYYYPQYLQAKQTLVPAHPM APPSPTTSSNDNHRISISSNSRWDQLSRTN LYIRGLPPHTTDQDLVKLCQPYGKIVS TKGNFGIRTTNNCKGYGFLDF*QPMQQ LKKAVSALKASGGSSSKWAKQQGQDAP TNLYISNLALSMD\EQELENMLKPF\GQV ISTRILRDSSGTSRGVGFARMESTEKCE AVIGHFNGK\FIK\TPPGVSCPHRNLL\CV LSFAGWEGQEKGDRTPNKYIPNGRPWA *EEGRGETLLGLTLT/YDPTTAAIQNGF YPSPIATNRMITQTSITPYIASTVHAFQ VQSPSWMQP\QPYILHDPGAVLTPSMEH TMSLQASMI\PLAQQMSHLSLSTGTGY MPATSAMQGAJLPQYAHMQTTAVPVE EASGQQQVAVETFNDHSPYTFQPNK
1028	9079	A	1978	2	1440	NSGPSSFMGKVVWQKQMYYPQYATYYYP QYLQA/KVWKAFGNTK*KGRVKNRKML VGWQTL*TLFLVGQKNQSLVPAHPMA PPSPSTTSSNNSSSSSSNSGWDQLSKTNL YIRGLPPHTTDQDLVKLCQPYGKIVSTK AILDKTTNKCKGYGFVDFDSPAQAQA VSALKASGVQAQMAKQEQDPTNLYIS NLPLSMDEQELENMLKPFQVISTRILRD SSGTSRGVGFARMESTEKCEAVIGHFNG KFIKTPPGVSAPTEPLLCKFADGGQKKR QNPKNKYIPNGRPWHREGEVRLAGMTLT YDPTTAAIQNGFYPSPIATNRMITQTSI TPYIASPVSAVQVAKETRENKYRGSARK VQSPSWMQP\QPIFYQHPGAVLTPASM KHTMSLQASMIQPFWPQMSPSVH*G QHPEPYHALQPSLCKGALLGPQYCTYC RLTAVPC*GRQSGQTGRLAVRGRLNDPF SIYRFNPNK
1029	9080	A	1979	104	340	TGQSYKKRKFVKWLQINRYLTSFLF/VF KEIRSHSVA*TEHSGAIMAHCSLKFGL SNPPASASQVAGTSGVQYHTSLI
1030	9081	C	198	2	28	MIDHTPS*
1031	9082	A	1980	118	528	
1032	9083	A	1981	1	864	
1033	9084	A	1982	3	4258	
1034	9085	A	1983	44	1360	VWDCPGLRWASFYLRLSWRAHRPQCGT ISFVTVNAAEQEKQFVSSRTKQKAKEEK LEKCGEDDETIPSEYRLKPATDKDGKPLL PEPEEKPKPRSESELIDELSEDFDLSECKE KPSKPTKTEESKAAAPAVSEAVSRTS MCSIQSAPPEPATLKGTVPDDAVEALA DSL GKKEADPEDGKPVMDKVKEKAKEE DREKLGEKEETIPPDYRLEEVKDKDGKP LLPKESKEQLPPMSDFLLDALSEDFSGP QNASSLKFEAKLAAAISEVVSQTPASTT QAGAPPRDTSSDKDLDDALDKLSDSLEQ RQPDPDENKPMEDKVKEKAKAEHRDKL GERDDTIPPEYRHLLDDNGQDKPVKPPT KKSEDSKKPADDQDPIDALSGDLSCPS TTETSQNTAKDKCKKAASSSKAPKNGG KAKDSAKTTEETSKPKDD

[illegible]

1043	9094	A	1991	25	1488	GGSSAAASGVSSRADAPVLAQSPASAGN GRPSTPRVPGSRRHPSAPRSGLPREDGC RTPGPQLPLPGA\LLRPRTLSSAAEDK ARSRHPDTQHPSSGGRCRGGTESPSSAA GRPASMAEAEVEDCHSDTVRADDEENE SPAETDVQALIP\MIQAQWKLEPAPRVTS SRLENRPCRAARGSLQKTSADTKGKQEQ AKEEKARELFLKAVEEEQNGALYEAIF YRRAMQLVPD\EFKITF\TRSPDGDGVG NSYIEDNDDDSKMADLLSYFQQQLTFQE SVLKLCQ\PELESSQIHISVLQMEVLMYIF RWVVSDDLTLTSLAEQLSLVCRGFLTSC A\RDPA*KYARPGPALKVWGQKACIKLVS VTRPGREDVF*ERPPVS/RFDGVYISKTT YIRQGEQSLDGFYRA\WH\QVEYYRYIRF FPDGHV\MLLTPEEPQSIVPRLR\TREYQ GLDAIPTGV\TIRLSPRHRTIRTQSIWLLIT KEKRKEKPL
1044	9095	A	1992	242	433	
1045	9096	A	1993	243	549	
1046	9097	A	1994	81	436	AKQGISPEGVMDVNTALQEVLKLALIH VWT*TRGNSRS*PKPLDKRQAHLCVLA SN\CDP\MYVKLVEALCAEHQINLN*GL IDNNET\MGEWG*GLLLKFDRGGGKPRK SWFG\CSCC
1047	9098	A	1995	3	452	
1048	9099	A	1996	3	484	PTLLVPTDSERTHPWLLSPADKTTVK/AP AWGKVG\AHAVRSMCAEALERMFLSFPT TKTYFPHFDLSHG\SAQV*GPRARKVAD AL\TNAVAQRGT\DIQRAVPPLSDL\HAH KL\RVGPGSTFKLLKATGLLG*PWPGPPS PAEFNPWRLQRLP\WDKVS\WVSC
1049	9100	A	1997	797	1049	SEEECCSCLPSPAGSDQRLCTHLP\CVI VNSEWGVARY*LVNCSC*PVFFSVGPK QYPYNLYLERGGDPSKEPERVVHYEI
1050	9101	A	2	25	619	EFHRLRENPPWCSSPADKTNVKA\WGK VGAHAGEYGAEALERMFLSFPTTKTYFP HFDLSHG\SAQV\KGHGK\KVADALTNA VAHVDDMPN\ALSALSDL\HAHKL\RV\D PVNFQSS*SQLPCLGEPWAAHLP\AEFQP LAVATSSLGTFKFGLSVEAPLLTFQITFK GWKPRVGHAF\ALWASPQPLPFPAPVP PWSLK
1051	9102	B	20	103	282	EDTAAQSSPGRGEEAEASAAEAQGGEQ AYLAGLAGQYHLERYPDSYESMSEPPIA HLLRP*
1052	9103	A	200	224	552	KVLRVARCGGSLSRPSTLGGQGGRLM RSGVRDQPGQHSETPSLLKM\QKLAGHG G/RAL*SQLLGR\LRQENHLNPGGRGCSEL RSRHCIP\SRVTV*DSISKKKRRKKVL
1053	9104	A	2000	546	882	CHVPPTLGTRGQGT\HQDPFPPHSPGAP APCPPPA\LLGP\PRPFPSPVP\PGGGENRK PFTSAP*A*VFPRTP\LGALS\RG*GSPVVG RGATPSPTPSPACGPLKCWWHLIKN
1054	9105	A	2001	43	311	
1055	9106	A	2002	178	817	SPASGH\CR\NGAAVAMFGCLVAGRLVQ TA*QQAEDKFVFDLP\YESINHVVVF MLGNNP\FPEGMGGSVYF\SYPD\SNMGP VWKLLG\SVTNGKPSAIFKISGLKSGEGS QHPPGA\NEYPNLHLLRLGISGELLDS MAOQTPVR*CCWYPQFDSFTQFTQKML DNFYNF\CASSF\AVSQAQMTPS/SI*KCSFR PNVVLKWYEAFSVSNIKAFYN

1056	9107	A	2003	283	840	TLPAFTDVISHKTGENFCLICGNGRFA VHCITLEEAKYKLCKVRKIWFHDAHTIH YLDSEVVKVNDTV*TGKITDFIKFDTGNLG RIGVITNRKKHRSFSDVVHVKDANGNRF APWLSNIFVTGKCNKPWISLPRGKGIRLT IAFHSDKWFCSDISVQNLCKRFSQDGTGI KNSEARRCSNLQV
1057	9108	A	2004	1	966	GRPAPEDGGPLSLPNAAMARGPKKHLK RVAAPKHWMLDKLTGVFAPRPSTGPHK LARECLPFIHFLRNRLKYALTGDÆVKKI CMQRAFIKINDGQVRN*YNLPLLGFMDVI SNEKTGENFPF*SN*HPRGPLLL*HRITPE EAKYK/VCAKMRKIFCGPTKGIPHLVTS *CPAPHPAYPRNPLIQGEMNTHSRILET GQD/ITDFHSKFDHLVTLCMVTGGANL GRNWVLITQQRGTPGSFDRWFT*KDA NGNKLLATSDFSNIWLLGKGNKPWISL PRGKGIPPHHLLLEERDKRLAAKQSSWV KWGPWVTWSDLLVP
1058	9109	A	2005	1	383	RIRKLCLNICVGESGDRLTRAADVLEQLT GQTPVFSKIVREYELRKNNFSDTGNFGF GQEHIDLGKIDPSIGIYGLDFYVVLGRP GFSIADKKRRTGCIGAKHRISKEEAMRW FQQKYDGHILPGK
1059	9110	A	2006	3	224	
1060	9111	A	2007	176	384	
1061	9112	A	2008	2	669	IMAQDQGEKENPHAGNFAFRKLVNLIC VGESGD/RPTRA/AQVLEPAQQGKTPCVF PKA*HTPVKSLWASRR/NEKIAFPATSS EGAKARRNLCRRGLKRFSEYGVQDNTT FSGYWEFTGFGI/QEHIDLGKIDPSIGIY GPGTSYVV/LGVRPGFQHPQTKKPGQG CIGAKHRISKEEAMRWF/QQKYDGHILP GQINSPFLSKKSNKKFSVNKKNNKITL
1062	9113	A	2009	688	884	CSCVWNLSFHGNFHLKTPYSRIKKAKH /WMAHVYSPITLGGRGGWIT*SQEFETSL SNIKPCLY
1063	9114	A	201	41	320	
1064	9115	A	2010	442	780	IEFVIKKIFFPFSHCLICLAIDLQ*YMG VPRWMLKTCYVRGKYRGVVLEEQLN WK*IHPLQVREDGRPCPLRLKLGKGG GGGEPLNQHGDPVQGNPPYFLFCHMRN P
1065	9116	A	2011	136	219	DPAREGHPVCCAGQRPCVDGHGQEKGF LKAALLEVELGASNPW*DTEVKPQSALP QASALTIWVSQQGVLSATILYEILGKA TLYAVLVSALVLMAMVVRKDF
1066	9117	A	2012	3	762	TLRGAVLRGAAGRLGGGLLVLAGRAM GLSAVGRTRAESGTAERAAPVFLGLQA VSTDTQMFGPGTRLTVLEDLKNVFPPEV AVFEPSEAEISHTQKATLVCLATGFVFPD HVELSWVNGKEVHSGVSTDPQPLKEQ PALNDSRYCLSSRLRVSATFWQNPVNH RCQVQFYGLSENDEWTQDRAKPVTQIV SAEAWGRADFGFTSVKSYQQGVLSATI LYEILLGKATLYAVLVSALVLMAMVVR KDSRG
1067	9118	A	2013	1	1010	RYSFKAVMGIRLLCRVAFCLAVGLVD VKVTQSSRYLVKRTGEKVFLCEVQDMD HENMFWYQRQDPGLGLRLIYFSYDVKM KEKGDIPGYSVSREKKERFSLILESAST NQTSMYLCASSLFNSGYQETQYFGPGT RLLVLEDLKNVFPPEVAVFEPSEAEISHT QKATLVCLATGMFPDHVELSWVNGKE VHSGVSTDPQPLKEQPALNDSRYCLSSR LRVSATFWQNPVNHFRQVQFYGLSGN DEWTQDRAKPVTQIVSAEAWGRADCGF TSVSYQQGVLSATILYEILARGPTLYC

						LCW*APLVLMAMVKEKGFLKAALEVE LGAF
1068	9119	A	2014	344	463	
1069	9120	A	2015	1075	2102	QOKPGQPLFLGSISPKKSFKTRKQKSSSK AEYNLTACKCLLCKRKYSSQIMLKRHM QI/RPQDNSFWNKL*KRKRP**YCQQFRN KS*S*TSRFCRIFTPFHYPFSTE/CN*REQII QMKKRTHRQHRKIKLNKTLK/CPKSTSP SAAGGQKTRKPKLSAGDFDKQLYCKL CKRQFTSKQNLTKHIELHTDGNNIYVKF YKCPLCTYETRRKRDVIRHITVVHKKSS RYLGKITASLEIRAIKKPIDFVLNKVAKR GSPRDEAKHSDSKHDGTSNSPSKKYEVA DVGIEVKVTKNFSHLRCKGKAFKAKK TYLEHHKKTHKANASNSPEGKNTKGRS TRSKALV
1070	9121	A	2018	1	408	SNPRVRGGGTHRSGQGAFANMCRGGR MFAPT/KTWRRWHRRVNTTQKRYAICS ALAASALPALVMSKGHRIEEVPPLPLVV EDKVEGYKKTKEAVLLLKKLKAWNDIK KVYASQRMRAKGKK/RCGR*ERKEGC CWC
1071	9122	A	2019	28	1437	EERGCSLPLACARPLAISVYSEKGESSG KNVTLP\AVFKAPIRDPIDELCSNPNLRK NNRQPYAVSELAAGHQT\AEISWGTGRA GGSKFPEVRGGGTHRS\GQGAFGNMCIR GG\RMFAPTKTLGRRWN\RRVNTTP/QK RYAICS\ALAASALT\SNWVMSK\GHRIEE VPE\PLV\VEDKVEGYKKT\KEAVLLL KKL\KAWNDIK\KVYASQRLRA\SKGKM RNRRRIPGAGGPCIYNEDNG\IKAFRNIP GNYS*A*AKLNILK\APG\GHGG\RFCI WTEKCFSGK\DELYGTWR*S\RASPQRS NYHSFPLHK\MINTD\LSRILEKPQRSQRA PPGHHAKKIHR\RVLKKNPTEKTLR\ML KLKPHMQKTHAAGTTHSSPRPRNHK\LR \VDKGKLLHQRHLQAKSDEKAAVAGKK PAVG\KKGKKAP\VG\VKK\QKKPLVGKK\ AAATK\KPAPEKKPAEKKP\TTEKKPAA
1072	9123	A	202	80	518	VGPLTPNSVLPRGSV/LPTEVGLDALGEG LKGLCGPNPVVETTNQGFPMKQGVLT GRVR*ET*DQSTQDSASCYSTCPAAQTA AYCSE/ASSVPRKIKKRLQNMLNFWPRE* RRLRRSARNKLRRDADFPLCELLLSLN PVRNKIF
1073	9124	A	2020	1	2196	
1074	9125	A	2021	1	207	
1075	9126	A	2022	1	1062	
1076	9127	A	2023	171	476	LPRFQTLRNTETEDHSCCCSGRRRFAAA VASRSQ*GNPASLAGSSTTGARSCAPVA RTQRCPRCAACGCWRWRTRWICSAGK WFAHSQFSARIDWLQFLEW
1077	9128	A	2024	1	781	

1078	9129	B	2025	1	1602	MGYRARIRNHVWLATQNHSTLVTERSA VPFLPVNPEYSATRNQGRQKLGRFNARE FGNLIIDILSESKRRQQAARAEQPHSAAAA DGVTFSPVPTPHTFRHSYAMHMLYAGIP LKVLQSLMGHKSSISSTEYVTKVFALDVA ARHRQPTRRKAPAVLGGCRAIATRERPG WFHVAEVRASRRGRSPTPQCADPGWASI SRGVLVCDECCSVHRSLSGRHISIVKHRL HSAWPPTLLQSGFPGPSRRAAPRAARGP TPRTEEAAWAAMALTFLLVLLTLATLCT RLHRNFRRGESIYWGPTADSQDTVAGSP DHGLLAFAHYHRLVRFLWVLCPGWAFF LVNSSRGGVFNPIHPCPRHGQARFAGV GRAEDVTFLYHPCAHWPWLKLQALLAY ACMANPSLTPDFSLTQDRVDIEQLDPRG RTPLHLATTLGHLECARVLLAHGETWA RENRSWGTVLQEAVSTQDLELVQLVLR YRDYQRVVKRLASIPVLEKLRKQRSYL PGRPLARLRRSVNSSGAVGMKSESMMGR WVFGP*
1079	9130	A	2026	2	692	ENRSGFQSRRIYSISKQKKLTFFDVKD NT*SWNAVASREECYLGVT*SRTLGRS *TKDRLRRT*SMPCYSDSM/ISMQELEFR HLNTIQMKRCELIRLQHQTETNQLYN KRRERELRRKHVMEVRQQPKGLKSKEL PNKKSSFQGYLQNSQTRQYKALRNHLE TTPKSEHKAVLKRLEKEQTRKLAILAEQ YDHSINEMLSQAVSLLFLGQNKFSAPFL PPPE
1080	9131	A	2027	1	2933	MDDIPQEARQYRHNQAYAYSIQGDGAE DDDERIVRFHTRVINHKKRKNSPRIVQSN DI TEAAYSLSRDQKRMLYLFVDQIRKSD GTLQEHGICEIHVAKYAEIFGLTSAEAS KDIRQALKSFAGKEVVFYRPEEDAGDEK GYESFPWFIKRAHSPSRGLYSVHNPYLIP FFIGLQNRFTQFRLSETKEITNPYAMRLY ESLCQYRKPDGSGIVSLKIDWIERYQLP QSYQRMPPDFRRRFLQHIFVLRERPET
1081	9132	A	2028	6994	7054	LISTSDLYFL*DL*VRCKQTGVLPWFHTT TIPRSSLEVNPFRPTYHLCEL/SASYLTSW YLSFLIWTMG*LLHLHHTELL*G*SNKSC *VLCMEPDVTVAHSAVCTQFW/SNVDKN NNVISLRKSFLFF*QSFALVTQAGVQWR DLGSLQAPPPGFTPFSCSLPSSWDYRRP LPRPANFLYF**RQGFPEFGFHHVHHVG QADLELLTSGDPPTLASQSAGVTGVSHH VQPGEGFCNCCCIVESGPFKERVG
1082	9133	A	2029	411	713	TNSLYGLNIYLEIDQHFRNMKIYRSNSLI LILILLHYCIFALSDL/CSH*PQVAI*KEIN WPGAVAHTCNPSTLGNRGRWIV*QEFE TSLVNMAKARLY
1083	9134	A	203	63	552	
1084	9135	A	2030	3	84	SGSTHASGGLQASRWRRAGTSRCSVSSL TSTSTASLRGLPTVATGLRSGSWTSHHG VAG*GRPTRPVGSRRRDGGERVRVGAL CQA
1085	9136	A	2031	3	519	SRWRRAGTSRCSVSSLTSTSTASLRGLPT VATGDYPPPDQASSNLTSPPPGHHTCG NRGQPWPVLGRGGANAAASSSRPEQG GGS/SSFARLSSTHGTGGGEGVKAVSSA *GP*GGLPGLNLVGGGDVTDASLSALT GGLEGILEKP*AGRCFITDGNPREEGREP RAG

1086	9137	A	2036	247	1294	MPNTAMKEKRCLLMGERSGSGKNQAM RSIIFAKLPFARDTRRLGATIDVEHSHVR FL\GNLVLNLWDCGGQDTFMENYFTSQR VDNIFRNVGSFDFKVFVDVESRELEKDMH YYQSCLEGHPPRTLPDAKIFCLVHKMD/ LLVQEDQRDLIFKEREEDLR\RLSRPLEC ACFRTSIWG*GRFYKAWVQAFVYQLD FPNVSAAGRLNLRDFAQIINEAD\EVLLFE RSVTF\LVISHY\QCKEQRDVHRFEKISNIN K\QFKLSCSKL\PASFQSMSEVR\NSNFA\A FMRHLFT*NTYVMV\MSDPVDPFLGPL LINHSQCPGNHFEETGRELNGPQATVFP YGVEYCONALSEKA
1087	9138	A	2038	311	458	
1088	9139	A	2039	1271	1540	
1089	9140	A	204	1	69	SGVKNRGYVVGISGGTTINKVSP*SRVS *PMAVSACY*VKNGRGYVVGISGGTTN KVSP
1090	9141	A	2040	176	552	MRSSKQMKPNFPRCSSITVLSVRGMVLF LTACPRFKMSSRTDFRFGNPQVT*GSTI CSIFRLPSILSMRTTK/DQGMFIWQFQGM RFHF*SSETHLVTFLPPGIM*E*FQSLKPE PFSLLSCYCH
1091	9142	A	2041	204	401	WHEFTGAENHCKTLPKENF*WCLCKSH PSEPKNAAYNRTLCDLGISKSEVSLGTSF EMWTSQGQE
1092	9143	A	2042	123	311	PSRRLLGHPRWALSPHLLPQRFCSWVS FAPASCPC/DLFISDRSSVS\GLMKHRM LGLAELL
1093	9144	A	2043	2459	3030	TSPSTSLRPAIPSPSPSSRPSSSQTTSAA SSPSSAWPKAASRQGA*RCRE*LPSWTS QSSPPLKSWGLDSAPPPPLSTCLSASTTR GAGAAATPQCSAPCLHR/CDKVPGFAVA QCINQHSSPSL\PHSRHPPAGAPAAAGA PATATLEAPARPPPPQPRVQQSGVAGK DADECSACRRPTVMAATGF
1094	9145	A	2044	1125	1695	DFFSKIDDHSLQVLFENQLLILFFPHFHLN DCSNSFLFFSEMESRSVAQLECTG/AILA HCNLRLLGSSDFPALASRVAGTTGTCHH TQLIFVFLVETGFHHVGGAGTCMQSQLI KGLRENHLNPGGGGCNEPRSRPLRSSLG NRVRLSQREKQNP*DAQVSEKGLNTLEL QAKF*GVSHVFPGER/VSLISQNP*PFWK KVIKQVSRLRFKKPQDPFRASQSLRIFQS HH*KSWNTYSQQRQVILFLCLSSYVYFK SFSKQGPRTLQIQLCPAWSTCCRLRE PCTNARVTHLPTLNPIEDATKQDSFLH GMVPIVRQGHQHRM*ENAGEFFPWELGL WMRGCFAHGTIRLLSFL*PFLSSF*R*SR K*SSLKMLDKNSQNNKTHASTSLIKNLP\ HLAPKSMATATKSNFKELRFLQQR*FT SSSP/CLKISY*YYSSLISI*MTAAIVFC/C FSEMESRSVA/QAGVHWCNLSLQSLPP GFKRFSCSLSSSWDYRHAPHPAHFCIF SRDRVSPCWPGWSQSPGPHGLPAWASP KCWDYSREPPRPGQQYSFSVTRTSLSPIT LRLCIAPCPNQAFTDPSRVLHLFVPASSIP PNLKVTLY
1095	9146	A	2045	1	577	PLKRS DGCNDGRPTRPPTRPDTTVFTSNL KQTRMVHLTPEEKSAVTALWGKVNVD VGGKALGRLLVVPWTQRF\FESFGDL STPDVAMGNPKVKAHGKKVLRGAFSDG LAHL\DNLKGTFATEVSLHC*QACTW DPGELQGSWGNVLVCVAGPITFGKRIST PPVAGLPNQENWLAWCWLNALGPQVIT
1096	9147	A	2046	16	370	
1097	9148	A	2047	1	1125	

1098	9149	A	2048	1	1941	MWKHLWNWVIGSGWKTLDVLEEDRKT KENLVLLRDFSSGCDQSIDRNMMDSEVQA DEFSDRNEEVIGNWSKGQPCYTLAKDLS ALCPYPKALWKVELKSDDLGEIPLELQR LVHGGQVNLDMEDHQDQEYIKPRLRFK AFSGEGQKLGSLTPEIVSTPSSPEEDKSI LNAVVLIDDSVPTTKIQIRLADGSRLIQRF NSTHRRRAVNGPSNQLPDKPGSPSPFCL APLITVCPAADDPSPALWLHLVAARSTS QRNGQVLCYLPRKWGA VAVCTSVEACC WVFWLLERQNDSGMQLGGPPSAIFRW LAAPAADAPAATSGAGCLATAGGAKTR KLALAELEDEVKCKSSKSNRPKATVFK SPRTPPQRTVKNWFQLIAPNAGEDAEQQ ELAFIAGGTAKWYSHFGRPFGNLLQRAT WNVSRKLLRTTQISGLRYWGFPGFQAK VAATLAKQEVIPPYLSLGRGAEFKGLSQ NSLQAPLHGTSQGGKNDYPETA VLPKLP REKVSRRERKLASSRCLSLGTKCMSEEA FLVITNSSSCSCEGGFPYLIAGKYAQDFG LVEEACFPYTGTDSPCKMKEDCFRYYSS EYHYVGGFYGGCNEALMKLELVHHGP MAVAFEVYDDFLHYKKGIYHHTVGLRD PFHPFEL
1099	9150	A	2049	1	2077	MTYPENIQIKKITGVQWMVPLKYKEEGS KVTTYCNETMTGWVHDLGRNWACFT GKKVGTASENVYVNIHLKNSQEKYSN RLYKYDHNFKAINAIQKSWTATTYME YETLTLGDMIRRSBGHSRKIPSSVPLCSS APLDVQLLVSPAKILGLYGGRMGMA GQKAPFLRAPVIGVSFADSFQPSRLQDSP QLFNQGGQLLSAAQVGSSGSQRDVNCSV MGPQEKKVVVYLQKLDAYDDLGN HFTIYNQGFVILNDLQVGLPFFKYKEG GAARVTTYCNETMTGWGA*CVWGRN WA\CFGTGKKVG\TASE\NVYVNTAHLK\N SQEK\YSNR\LYKYDHNFK\AINAIQKSL TATTYMEYETLTLGDMIRRKWWATSR KIPR\PKPAPLTAEYSQK\LLHLPTSWDW RNVHGINFVSPVRNQASCG\SCY\SFAS MGMLE\ARGIRLTNNSQTPILSPQEVVSC \SQY\AQGCEGGFPYLIAGKYAQDFGLV EEACFPYTGTDSPCKMKEDCFRYYSSSEY HYVG\GFY\GGCNEALMKLELVHPWGP WEVCFLEVYDDFLHYKKGDPTPHTGLK RPFSTPFELTNHAVLLVGYGT*LKPLG MEY\WIVKNKLGAPAWGLRNGYFRIPR GTDECAIESIAVAATPQFLNFRGLPSIFI NGSASSCKGGIGIFTDCRLSTSIFRSLQID FP
1100	9151	A	205	379	540	IKKVRNLGPKHPRFSVLLHVSCTSTNGG VLL*RSSVPRKIKKRLQNMNLFWPPE
1101	9152	B	2050	59	466	MSAAMRERFDRFLHEKNCMTDLLAKLE AKTGVNRSFIALGVIGLVALYLVWLPSL HLCGFLWCMAPSPSNGAELLYKRIIRPF FLKHESQMDSVVKDLKDKAKETADAIT KEAKKATVNLLX*
1102	9153	A	2051	1	915	
1103	9154	A	2052	1	3180	FRAAVAAPVYPALGTAPGGETVPEMTA AMRERFERILHDKNCMTDLLAKLEAKT GVNRSFIALGVIGLEALYLVFGYGASLL CNLIGFGYPAYISIKAIESPKNKEDDTQWL TYWVVYGVFSHC*NSFSDIFLSWFPF* LHG*KCGFLVGWCMAPPELLNGG*NCS KRRIRSFSPGSTKSQIGQVLVKDP*RPR PKETADANH*KKPKKSLP*ILLG*KKKKK GGR
1104	9155	B	2053	171	256	XVDPASSQAMELSDVTLIEGVGNEVMV VAX*

1105	9156	A	2054	187	437	PWS*LGSLPT*QTAVQPAPGRYCVSRRHI RPPPGACGPPGGTANGNPEPTELPHPSEG NDEKAEEAGEGRGDSTWGGWSWGC
1106	9157	A	2055	2	165	NQHHTLPPSPHYHPQ*G*HQRAPWP GCWQGPCCRNKGGQHQAEPEGLQPG
1107	9158	A	2056	1	506	SPASQCHHHYPLMMGSSVVRGAFGLPP VGPHAPGVGRMCRLLTQ*RPAGACYRC LLRR*RAKLGPRLESAPHLPPSPHYPH PQ*G*HQRAPWPGCWQGPRTAR*GGV PHPFSEAKVPLLDGPIPSALDWGPWAHP NRRAAWPQPP**DQLSRPVRSRVG*GGH KP
1108	9159	A	2057	496	1092	QPAPGQLLCHLATHP\PPPGACGPPGAG QGKPEPTELPHPSEGNDKAEAGEGRG DSTGEAGAGGGVEP/RP*ASP*HPRPAQK TSRCRQQSRGPPEI*G*HLPPSQWPHH CAAQIPQ*YRGAGCG*ARGYRGCPPEQI LPWTRKPDETDLPGPATRPSPHTAFSEH YRQLCDLPLTPRVCSRPLSLGLGH
1109	9160	A	2058	155	701	PGLFRRGLPHPGTGPVQSPFNFP*/PPR/GP EAPPP/RSPAPPSRLRGVDGL*PP*PTLLT GRDNWSY\PEAGARQPFSGGPMDPSPA PRE*DHPKAESPQKKGAGPLLTVRSRY GQGRSQAEGQSKDP*GRTPGVLPGPSR EFPVSVPIVFVLCRRFFSCKSWIMTLTFL PSGVSCGCDK
1110	9161	A	2059	1	506	DRDAEFYKFLQENDQSQLNFSDSDSSEE EEESFHSPLYVLEEA\AFRAAVATT/RGD QESAEANKFQVTD\SAVFNALVVFNALV TFCIRDLTGCLQKLLIGKVAKDSSRMLQ PSSLLWGKLRVDIKAYLGSVIQLVSCV AETVLA\AVLWHISVLVPCFLTFFPKQCS RE
1111	9162	A	206	287	449	IKKVRNLGPKHPRFSVLLHVSCSTNGG VLL*RSSVPRKIKKRLQNMNFWPRE
1112	9163	A	2060	9	2295	VGCTLRVGVM\AAAGSRKRRLAELTVDE FLASGFDESESESESEN\SPAETREAREAA RSPDKPGGSPASRRKGRASEHKDQLSR LKDRDPEFYKFLQENDQSLNFSDSDSSE EEEGPFHSLPDVLEEASEEEDGAEEGEDG DRVPRGLKGKNSVPVTAMVERWKQ AAKQRLTPKLFHEVVQAFQAAVATTG DQESAEANKFQVTD\SAFNALVTFCIRD LIGCLQKLLFGKVAKDSSRMLQPSSTPL WGKLRVDIKAYLGS\AIQLMSCLSETTVL AAVLRHISVLV*FLTFPKQCHMLLKR VVVWSTGEESLRVLAFLVLSRVCRHKK DTFLGPVLKQMYITYVRNCKFTSPGALP FISFMQWTLTELLALEPGVAYQHAFLYI RQLAIHLRNAMTRKKETYQSVYNWQY VHCLFLWCRVLSTAGPSEALQPLVYPLA QVIIGCIKLIPTARFYPLRMHCIRALTLS GSSGAFIPVLPFIL\EMFQQVDFNRKPGR MSSKPINFSVILKLSNVNLQEKAYRGGL GWSSCYDLNPGSYLHSAHCIGFPELV PVVLQLKSLF\RECKVANYCRQVQQLG KVQENSAYICSRQRVSFVGSEQQAVEA WEKLTRIEGTPLTY\YSHWRKLRDREIQ LEISGKERLEDLNFPEIKRRKMADRKDE DRKQFKDLF\DLNSS\EDDTEGFSESGIL RPLSTRHGVEDDEE\DEE\GEEDSSNSED GPD\AEAGLAPGELQQLAQGPEDLEDL QLSEDD

1113	9164	A	2061	203	1383	MSSFGYRILTVALFTLACCPGSDKVF/ EVHVRPKEAGRLSPKGSLEVANCSTTC/ NQP*SGVGLGDLSD*GFCWDEQVQLGN NYLGLKHFPIDTVLCCHFTLASGKQESM NSNVSVYQPPRQVILTLQPTLAVAVGKS FTIECRVPTVAEPLDSLTLFLFRGNEILA LWRTFRGRAAPAPQGGPQPHSNSTADR RGLAHRKLSPLAVLADLMSRGGWNIFHK HSAPKMLEIYETCVRTSPDWSSSLVTGG VGVACPLFVTSVLLCFIFGQHLRPASG MGTYGVRAAWRRLPQAFRPIATHGVA WPHTTVVTGTQCDSSGLRYQPWLKDCD RQQLGTLPLARIQTPGLSPVPTVSPPGI TMAREGSHHGGPLSLDASLPTLSFTGWH EA
1114	9165	A	2062	503	1808	TTVQEESTVDSQVPVNIHLLTNIGRTGV SPGDVSDSATSSTKSKGSWGSKDQYS RELLVSSIFAAASRKRKKPKEKAQPSSE DELDNVFFKKENVEQCHNDTKEESKES ETLGRKQKIIIAKENSTRKDPSTTKDEKIS LGKESTPSEEPSPPHNSKHNSPTLSCR AILKESPRSLLAQKSSHLEETGSDSGTLL STSSQASLARFSMKKSTSPETKHSEFLAN VSTITSDYSTSSATYLA*PGLQSTEP*GA SVAESKGDEADDERSELISEGRPVETDS ESEFPVFPSTLDFREAFPRKTARSVKSSR RNSEGESELSCTEGSLTSSLDSSRQLFSSH KLIECDTLRKKSAFKSDSGSLGDAKN EKEAPSLTKVFDVMKKGKSTGSLTPTR GESEKQEPTWTKIADRLKLRPRAPADD MYE
1115	9166	A	2063	2	527	DPEADSIRAEMSRVALAVLALLSLSGLE AIQRTPKIQVYSRHPAENGKSNFLNCYV SGFHPSDIEVCLLKNGKRIEKVEHSDLS FSKDWSFYLLPYTEFHPQLKKDEYALP V*THVTLSPAQR*FKWDRGHVKQHHGG LKMPHLGWNSKFLACFFNIDMLITLT LLCTKM
1116	9167	A	2064	3	163	
1117	9168	A	2065	611	1432	TPLHLAVITNQPEIAEALLGAGCDPELRD FRGNTPLHLACEQGCLASVGVLTQSCCT PHLHSILKATNYN/GYVCLPALPHPLGGQ VTWRRGRWANLRSPGKSLNS*HLEG*E NMCACLLDAFIKFFQNPDCGFLKFRR* DYL FHKRIGERSEG*NRWVYFFPVLPG HTCLHLASIHGYLGIVELLVSLGADVNA/ QGWCFLLPPTH*VRLVLML*AEIPNAAIS ISNSFWFQEPFCNGRTALYLAVDLNPNDL VSLLLKCGADVNRVTYQGYSP
1118	9169	A	2066	1	1332	MVQLSPHYRGDSEDGRKRMVQRTPKV LFFWSDWLGNSPSLTPPQRNPQAFIGRR GGAAEPTAVRAAVPPASAPARKQRAAR GPAHPQQRQLVRAMFQAAERPQEWA MEGPRDGLKKERLLDRHDSGLDSMKD EYEQMVKELQEIRLEPQEVPRGSEPWK QQLTEDGDSFLHLAIHHEEKALTMVIRQ VKGDLAFLNFKTNLQQTPLHLAVITNQ PEIVEALLGAGCDLELRDFRGNTPL*SL ACEQGCLASVGVLDSSLAPPPQLHSILK GYPTTMGHTCLHLAFYPMGYWGHRSF LVFLGVLDVKCSRSPCKWPGLPILHADV LQNPPEGCSLLFESVGADVQQSLPTQGY SPPTQPHPGPPQAPRIQQQLGQLTLENL QMLPRE/SPDEESYDTRVQSSTGVSPED LAPMDDCGVFGGPRSDVMSAKGLKET
1119	9170	B	2067	169	251	XPQKEPYVIPFTGCVTQKQVAGDAGW Q*
1120	9171	A	2068	33	445	
1121	9172	A	2069	1	1428	

1122	9173	A	207	263	525	IKKVRNLGPKHPRFSVLLHVCSTNGG VLL*RSSVPKKNKEAAEYAKLLAKRM KEAKEKRQEIAKRRRLSSLRASTFKSES SQK
1123	9174	A	2070	1268	2807	LPLESLAVQVKQHIDAVARFTGIKNCYF GFGGMSTQKPARGC*TRRPEIVVATPGR LWELIKEKHYYHL\GNLRQ\LRCL\VVDEA\ DRMV\EKGPFWLELLHSCFRDASNDS\Q YNPKRTKRLFFLATLTLVHQAPARNPFH K\KHTKKMDYTAQLADLLMQKIGHEGAS PKVIDLTRE*GPRWETLTETKIPL*DLIEK DFLLVTTFLMQYSRAAA*CFANSIS\CIKR L\SGLLKV/LLDIMALGPWHGLVWHQEG RGLRNLGSILPRLAEDCVLLATDVGSSGV WDIPKV\QHVHPFTRVPRTSEIYVHRSW SNLLRSYQLTGLKS*LLIWGLKDVINFKK IYKTLKKDEDIPLFPRADINTWDVVKERI RLARQ\NEESEYRNFAQ\ACHNSWIEQA AAAL\EIEL\EEDMY*GEGKA\DQOEERR RQKQMKVLKKELRHLLSQPLFTESQKTK YPTQSGKPPLLVLAPSKERVCFLSCLSQ GRKEEGRTKEARGGPQPGTATAKLQVQ FNCPGQVCQ
1124	9175	A	2074	1	408	SNPRVRGGGTHRSQGAFANMCRGGR MFAPT/KTWRRWHRRVNTTQKRYAICS ALAASALPALVMSKGHRIEEVPELPLVV EDKVEGYKKTKEAVLLKKLKAWNDIK KYYASQRMRAKGKK/RCGR*ERKEGC CWC
1125	9176	A	2075	3	1434	FPVAAAGLRGAWLSPLSAMACARPLIS VYSEKGESSGKNVTLPVFKAPIRPDIV NFVHTNLRKNNRQPYAVSELAHQTK\ AEISWGTGRAGGSKFPEVRGGGTHRS\G QGAFGNMCRGGRMFAPTQNLGRRWN RRVD\TQNR\A\ICS\ALA\ASALTSNW VMSK\GHRIEEVPELPLV\VEDKVEGLQE EPRKLFLLKKLKAWNDIKK\YASRR MRGGQRQNGETVRRIPGAGGPCIYNED NGINKPFRNIPGNYS\A*M*AKLNILEALL PG\GHGGTFLAFGT*KLPFRK\DELGYT WR*S\RASPQRSNYHSFPLHK\MINTDLS RNLEKPQRSQRAPPGHRGKREDPIRRVL KKNP\KLNRLMLKLN\PICKGPCCR/RHPF FAQAQESQSSGVDKGKLLHQHLOAKS DEKAAVAGKQPVVG\KTGKKGCLLVFK NQKKPLVGKK\AAATKKPAPE\RSLORR NATTEKKPAA
1126	9177	A	2076	275	652	TVNLCFSTFLWTVLYFTFFAKCFQIHLL RIYLR**LKTTSNWFM\LYA\IMHVLLVQG QN*NKIFSVKQIYLLCTFIYTGIFW*YHT KG*NKTFTM*NSMYIFGYLHTLKPKGKI KRKHLFATTIC
1127	9178	A	2077	63	290	GGILLSISRPYKTKPTHGIGKYKHLIKAE P\KKKKGKVAVRAINLGT\DYNYGVLNIH LTAYDMTLAESYAQYVHN
1128	9179	A	2078	315	1092	RPRSSKRMSGTSEKVLCLRNNTIFKQAFS LLRFRSTGEKPIYSVGGILLSISRPYKSKP THGIGKYKHLIKAEPPKKKKGKVE\VRAI NLGTDYEGVLNIHLTAYDMTLAESYA PLFSTTFCNLSH*KSEESYAMPTQNHKK WLPVCRDQGPCKLLGLKCLP\THE\RV VQISGLSATFARKFSWKIIPKPVLP*RESG LFS*REHTERKTSRGRFQRFDP\ELGRTFW AKFEVATVDPFHCQQWSYLSAKEKSL GS
1129	9180	A	208	68	280	
1130	9181	A	2080	61	346	LSLFFETEFCSCYPGLECSGVILAHCFNRA LPGFK*FSCLSLPSSWVYRYPPDPANFL VLVETGFHHVGPGLVLNDPLIFNLDTCY

						SAKRQFLE
1131	9182	A	2081	88	386	PHRFGKRRNKTHTLCRRCGS\KAYHLQ KSTCGKCGYP\AKRRKYNWSAKAKRP KYHPEPGRMRHLKIVY\RIQGMGF\REG TTP*TOEQOAVASIQVHL
1132	9183	A	2082	187	913	STNKRSTRPPLGFEMASPHQEPKPGDLIE IFRLGY\EHWALYIGDGYVIHL\APP\SEYP GAGSSGVFS\LSNSAEVKRG\RL\EDVV GGCCYRGQQTAWDHGVPS\RALEG*SF SSAKEMVWFRRLK\YSI\SRNCEALCSP SLRYGQVPAVKQVGKGRFEVG\VLATA LGILVVAGCSFAIRRYQK\SDSLKQPQN PVLEAAVGVPVEMSLPRCLQ\QPDPRALS QAFSRSFPLFPSLAGKSMI
1133	9184	A	2083	1	423	
1134	9185	A	2084	2	390	PRVRYRGVITDPQPLMEQ\PLGDSRYWL SSRLRVSATFWQ\NPRNHFR\QVQFYGLS ENDEWTHDRAK\PTQIVSAEAWSKADC GFTSGN*QQGVLSATILYEILLG\KATLYA VLVSALVLMGMV\KRKDF
1135	9186	A	2085	2	1027	HLPDAAMGPQLLGYVVLCLL\GAGPLEA QVTQNPRLITVTDKGDV\PEGYKVS\RKE KRNFLILESPSPNQ\TSLYFCARSFEQGY EQYFGPGTRLTVTEKRNFLILESPSPNQ TSLYFCASSSSQ\RLSPGFNYGYTFGSGT RLTVVEDLNKLF\PEVAVFEPSEAEISHT QKATLVCLATG\IFPDHVELSWWWNGKE AHSGVSTDPQPLKEQ\PALNDSRYCLSSR LRVSATFWQ\NPRNHFR\QVQFYGLSEN DEWTQDRAK\PTQIVSAEAWGRADCGF TSVKS\YQQGVLSATILYEILARGRPTLY CLCW*APLVLMAMV\KEKGFLKAALEV ELGAY
1136	9187	A	2086	1921	1991	SFVIFDANIFFQFIG*SLLSLWM*ALLCLL VTEHLYLV\SIGHLWCVCVCVCVCVCVY DFLIPSHFSIDCF\AKAIYILRIH\FIFDAN IFFQFIGCLLILCFR
1137	9188	C	2087	105	392	
1138	9189	A	2088	38	230	LYWQKRKGKLLNNLTQ\GIVADPVR*KK FHFKCPSNCPKIHNTESAYAVSFMK\YSA HVLGSLYEM
1139	9190	A	2089	487	747	
1140	9191	A	209	465	1444	KKGEKDYSWTDLILTVPSP\PGPQKELARI \GQTFPISLKKMMSASML*ESPLNKG*E T*GPKAPKIQLVTPC\SSSPNGGRIALK KQRT/TRKIKKRLQ\NMLNFWPRE*RRLR RSARNKLRRDADFPLCELLLWPCPPAT E
1141	9192	A	2090	1	1350	
1142	9193	C	2091	179	649	MFLLVGAPKANTTQPGIVEGGQVLKCD WSSTRRCQIEFDAT\ELHRELKENQNHS YSLKSSASFNVIEFPYKNLP\IEDITNSTLV TTNVTWGIQAPAMPVPVWV\IILAVLAGL LLAVLVFVMYRMGFFKRV\RPPEEQE REQLOPHENGEGNSET*
1143	9194	A	2092	274	423	
1144	9195	A	2093	1	3849	MCGGVFATEELAVSAGLKRKMCSVVEK RHGDFQVELLLDKLKQKGAIRRALFLYS RSPSHSKNMTISR\GGLMQCEELIAYLRD ESEFRDKLTPITIFMEYRLDYRTAADTTG LQILNQFTPANISRQSGFVLLTCS\DQKKI YIGDDNPLTLIVKAQ\NQGEGAYEAEIIVS IPLQADFIGVVRNNEALARLS\CAFKTEN QTRQVVCDLGNPMKAGTQHLLSPCTQF SMQVFLFHYTASSSVVALDSHR\SKPYCV N

1145	9196	A	2094	1126	2034	RCWRPRTLGFASPPTRPCSPHAPGCEM TPRDWHRVLSFASPLRIEIEIFQGYDKTFG LKNKKGAKQQKFIKAVTHQVKFGQ/SKS TSGSTE*SWKRKLKDDKKELQELNEL FKPVVAAQKI/RVKGADPKSVV\CAFFKQ GQCTKGDKCKFSDTLTGEKMEKRSVY IDARDEELEKETKSSLIQADTMNDWDEK KLEEVVNKKHGEAEKKPKTQIVCKHFL EAIENNKYGWFWVCPGGGDMYRHAL PPGFVLKKDKKKEEKEDEISLEDLIERER SALGPNVTKITLESFLAWKKRKRQV
1146	9197	A	2095	1	213	
1147	9198	A	2096	2	170	
1148	9199	A	2097	3	764	PAVVCGRRLISVLEQIRHFVMMPEINTN HLDKQQVQLLAEMCILIDENDNKIGAET KKNCHLNENIEKGLLHRAFSVFLFNTEN KLLQQRSDAKVTFPG/LVLRNTCCSHP LRQSSRALRESDALGS*/GARQHRGRLES LSLGIPLEEVPEELII*HRIHYKAQSDGI WGGHEIDYILWWRKNVTLNPDNEIKS YCYVSKEELKELLKKAASGEIKITPWFKI IAATFLFKWWDNLNHLNQFVDHEKIYR M
1149	9200	A	2098	1	299	GIPDQEVIGTGYGILDQKASGVKYTKS/D FRSPRPDDLSSFQL*VTSHWDLRLIEVTE TICKRLL\IACTRRGPAAIDLPRACQRPL RHYTTWYTKGSRW
1150	9201	A	2099	1	631	MDSMPEPASRCLLLPLLLLLLLLLPAPE LGPSQAGAEENDWVRLPSKCEVCKYVA VELKSAFEETGKTKEVIGTGYGILDQKAS GVKYTKSDLRLIEVTETICKRLL\IACTR RGPAAILDPRLDGSLFIRSGVRPACILVC LLVHRQKCSTVAAPVGT*RH*NGENSAR STMCRKVG*ARCQRTPRACQRPLRHY TTWYTKGSRW
1151	9202	A	21	918	1872	AEKGPPSPGVPSTCLANSPPPSAGSAAV PHSAPPGAAPRRSSRQRPCSPRRCWQEG AGVRAGQDGLGGSATRSAAQQSHQRQT GP/EGSTGKAKARGSTGRKR*AMGGSAA GDGA/PHVLGTGQPRAPPSTGDCARAG NWLAAQGSAPTHRRWSTCWEPASPLPA SSNCCTHTWTRNCPGTAPSGTALPGLPG RPAPHPEPPPPMPPPP/PPRPGL/PLGSCVF L*VERPIWREVLSPAPPRAVDTSGHE\ ASGPSVPVAGTEPSRPWLKQPLPCPPQP RSWLTRPE/AELHMPPTPLPAYLPGSVG VPOSHS*PPATLLR
1152	9203	A	210	87	904	GGWVAPETPSDPWFVPVQRGVGDASVPG IGKNVVCEKAATSVDAFRMVTASRYYP QLMSLVGNVLRFLPAFVRMKQLISEHYV GAVMICDARIYSGSLSPSYGWFC\DEL MGGGGLHTMGTYILDLLTHLTGRRAEK VHGLLKTFVRQNAAIRGIRHVTSDDFCF FQMLMGGGVCSTVTNFMMPGAFVHEV MVDVPLLYLKGMVYMVQALRQSFQGG GDRRTWDRTPVSMASFEGLYMQSVV DAIKRSSRSGEWEAVEVLTEEDTNQNL
1153	9204	A	2100	171	825	RANPTKPIGCAVRGPWSALKAGCGCQR RAGGRLAVVVVARRHVCSPGSGEGKLL RARPREEPPGLGSGPGRAMDSMPEPA SRCLLLPLLLLLLLLLPAPELGPSQAGA EENDWVRLPSKCEVCKYVAVELKSAFE ETGKTKEVIGTGYGILDQKASGVKYTKS DLRLIEVTETICKRLL\IACTRRGPAAIDL PRACQRPLRHYTTWYTKGSRW

1154	9205	A	2101	2	527	PGRAMDSMPEPASRCLLLLPLLLVMLVL LPAPELGPSQAGTDENDWVRLPSKCEVC KYVAVELKSAFEETGKTKEVIGTGYGIL DQKASGVKYTKSISDPDQDDLSSFQL* VTSHWDLRLIEVTETICKRLLNIACTRRG PAAIDLAKVGFGIVLHPLWGPGLQCMLS VSAGL
1155	9206	A	2102	3	1203	SSAAEAMRVLVRRCWGPPLAHGARRGR PSPQWRALARLGWEDCRDSRVREKPPW RVLFFGTDQFAREALRALHAARENKEEE LIDKLEVVTMPSPSPKGLPVKQYAVQSQ LPVYEWPDVGSGEYDVGVVASFGRLN EALILKFPYGILNVHPSCLPR\WRGPAPVI HTVLHGDTVGTIMQIR\PKRFDVGPIL KQETVPVPPKSTAKGIGKAVLFKDWGA NMLNSVLEKFGLESLSNGRQQPMEGAT YAPKISAGTSCIKWEEQTFEQKFRLYRAI GNIPLQTLWMANTIKLLDLVEVNSSVLA DPKN*REQALIPGS\VIYHKQSQILLVYCK DGWIGVRSV\MLKKSLTATDFYNGYLHP WYQKNSQAQPSQCRFQTLRLPTKKKQK KNCCYATMH
1156	9207	A	2103	3	215	
1157	9208	A	2104	2	341	SKPFSLQETYEAKRNEFLGELQKKEEEM RQMFVQRVKEKEA/ELKEAEKELHEKFD RFKKLHQDEKKKLEDKKKSLDDEVNPF KQRKTAELLQSQGSQAGGSQTLKRD EKKN
1158	9209	A	2105	1	130	
1159	9210	A	2106	2	3449	
1160	9211	A	2107	2	1609	FVPPPFVEAYGWGCRKNWNWAGHRGK RRVKSAPSPYPTFKGWAVEGRLGLEQRR GGPSLAPPPTGLGRARSVTLSLCRRSSSV SCAVAPVAAAPVAALADAGAMAATDIS RQVGEGCRTVPLAGHVGFDSLDPQLVN KSVSQGFCFNILCVGETGLGKSTLMDT LFQHQISKGEPATHTQPGVQLQSNTYDL QESNVRLKLITIVSTVGFGDQINKEDSYKP VVEFIDAQFEALLQEDPKVRRVLQTYH DSRIHVCLYFIAPTGHCLKSLDLVTMCK LDSKVNIPIIAKADAISKSELTCKFKIKITS ELVSNQVQIYQFP\TDESVAEIQLN*TP HLPFAVIGSTEELKIGNKMMRARQYPW GTVQVENEAHCDFVKLREMLIRVNMED LREQTHTRHYELYYRCKLEEMGFKDTP DSKPFSLQETYEAKRNEFLGELQKKEE MRQMFVQRVKEKEAELKEAEKELHEKF DRLKKLHQDEKKKLEDKKKSLDDEVNA FKQRKTAELLQSQGSQAGGSQTLKRD KEKKN
1161	9212	A	2108	1	618	
1162	9213	A	2109	1	427	HPVRRFVHRGPH/VDFSLEVVSQWYELV VFTASMEIYGSVADKLDNSRSILKRRY YRQHCTLELGSYIKDLSVVHSDLSSIVIL DNSPGAYRSHPDNAIPKSWFSDPSDTAL LNLLPMLDALRFTADVRSVLSRNLHQHR L
1163	9214	A	211	217	624	GDELVKREAGMKMLPGVGVFGTG/ELPP EVLVPLLAEGFTVEALWGKT*GGRRK ALLKEMNIAFHTSRTYDILLHQDVLVC ISIPPLTRQISVKALGIGKNVVEKAATS VDAFRMVTASRYYPQLMSLVGNV

1164	9215	A	2110	2	835	WNSAELGRGGPGAGGAGVIGMMRTQC LLGLRTFVAFAAKLWSFFIYLLRRQVIRT VIQYQTVRYDILPLSPVSRNRLAQVKRKI LVLDLDETLIHSDDGVLRTVVRPGTPPD FILKVVIDKHPVRFFVHKRPHVDFFLEVA VSQWYELVVFITASMEIYGSAVGRNLNW DNSRSIL*GGRYYRQHCTLELG*SYIKDP LLWFHRDLSIGVILADNSPGAYRSHPGY GGRADNAIPIKSWVSVTPSDTALLNLLP MLDALRFTADVRSVLSRNLHQHRLW
1165	9216	A	2112	2	846	RFPLGCFPAQEPQGPVGQPMGAPAGNG HGS*SPHFHQGTGKRAALATWFWNQAP ERSPDVKAPAKPRARRIAPRPRVGVPIRP IVRCPTVRYHTKVVRPGRGFSLEELRVA GIHKKIVARTIGISVDPRRRNSVTESLQA KRAAG*REYRSKILFPQSPRAPKKGDS SVAEELKLAHPG*PGPGHAPSGTVYKKE KARVITEEKNFKAFASLARMARANAPA LSAYRAKKSPRKPKQKTDVEKPTIKPCLG TWNQSGSHAGSPRGVFRGNNWAWDGA SLL
1166	9217	C	2113	714	1010	MKSLNPHLDKIFPHKPLSSLASPSKTLVP GHLCDSTPFKFSPLYLLFPQNHPTSPH LPSPPKDKGISPIYTPHCLGGVITLILCMH FYRFVCHLSY*
1167	9218	A	2114	2	227	ERFRPPIARVIDVSNKGKVVHVAE/SCLEET GGLGVDIVLDAGLDPPDSHCLFLKGATL AFLNDEVWNLSNVQQGRYL
1168	9219	A	2115	3	487	
1169	9220	A	2116	1	489	
1170	9221	A	2117	2	221	
1171	9222	A	2118	353	512	
1172	9223	A	2119	1	1706	MPRAAIAQTPAPTAPAAAAARGPGRRLA ALSSPHLRAAEHDGRCSSETGCHGVLD LASPTPPFRSDERPDQWEQGAGSLTKDW KVAVVKVQAVGAAQRQVSPGKRVLC GKRAFKRKVERCPTEPCSPGEDGGSRT LTWDLFGPRPSLAEEAEGHFFLPHHFAV FGKQLVVIRCMWLLSQIGPLHYAKRRN HLERDVTMKGlyFQSSSTDEEITFVFQE KEDLPVTEDNFVKLQVKACALSQINTKL LAEMKMKKDLFPVGREIAIGVLDVGSK VSFFQPDDEVVGILPLDS*KTPGLCESL LRVHEPLLGFINPEKVTWTEAAGSISGM GVRAYYSFLHLSFFIFSPGGNQCLIMDGA KCHLRTIAIQLAHRGAKVISTACSL QCLERFRPPIARVIDVSNKGKVVHVAESCLE ETGGLGVDIVLDAGVRLYSKDDEPAVKL QLPHKHDIITLLGVGGHWVTTEENLQL DPPDSHCLFLKGATLAFLNDEVWNLSN VQQGKYL*QSFLRLKDVMEKLSTGV FRPQLDEPIPLYEAKVSMEAVQKNQGR KKPSWFQF
1173	9224	A	212	858	992	LKSPQRPGMVAHACNHSTLGARGGWIT/ R*GQEFKTSANMAKPHL
1174	9225	A	2120	230	535	

1175	9226	A	2121	344	2631	GDREGTGRAHTEEGAGAGMHFYDVEG VDWDRVQGPRMRGLSSSVQVGRFPAPK VSGPLSICVVRQLGLASSRFARSVPFGV WKKDLPCLSLLSQSEDELTPFDMSIQVR LPFNLRQI*KQYWLGMAAHAGTEKDK NSVNFKNIVLQELDNPGQ*YFKISFSLI YENISTLIKEDMGHGSDYSLSEVLWVCA NLFSDVQFKMSHKRIMLFTNEDNPHGN DSAKASRARTKAGDLRDTGGHISPF*IG T*LLFFYFLFF*IISIAEDEDLRVHFESSK LEDLLRKVRKETRKRALSRCALSPGQL PTLPLNQKQAGRGGFKPPPIKLYRETNEP VKTKTRTFNTSTGGLLPSDTKRSQVGR DAFCCCCF*DRVSLCRPGWRGLMLMGF KPLVLLKKHHYLRPSLFVYPEESLVIGSS VDHG*VTLTHSAVYGAALC/RYTPRRNIP PYFVALVPQEEELDDQKIQTTPGMWQ RYFQGF*TLPLWNHPWTPQGGGTVRLA LDVSKKLETGTNCRQVKGLCWGNTGRN SKYRRAATTVLLSAVSVTHSATPEQ/VW GKMKAIVEKPRFTYR\SDSFENPVLQQH FRNLRALALDLMEPEQAVDLTLAQCS Q*IKRLGSLVDESKGASLPQPDYNPEGK SYPKRKNTNK*KGLGKKRPGWK*FK KEGA*RPHIKKGVRWGKVHCAPC*KEA CRGLRG*KSLGK\KQELLEALT\KHFPGL DQRPAPPAALPAVLPGCPGLVLSQLKCV SPELGRVYPT
1176	9227	A	2122	599	1063	SCSEGLNAVNNLKASRKPKCLSLKWFL FYFP**IDSQAFYPLISKIVKRKKMTHFW TLYFMYLFLRQSLALLRPGWSAVAQSQL TVALGLL/VLRQSSYVSPPGTWNHRYMP PCPAF*NYFCRDGGLPILFRLVLNSWV*A VLSRPLKMLRLQA
1177	9228	A	2124	142	461	
1178	9229	A	2125	145	904	VINLVYLISSPRPELKPVDKESEVVMKFP DGFEKFSPPILQLDEVDFYDYPKHVIFSR LSVSADLESRICVVGENGAGKSTMLKLL LGD\APVRGIRHAHRNLKIGYFSQHHV GAAGT*TFSACGNLLGTQVFLGRPEEY\N RHQLGFGMGISGELGHASSLPACLGQK EAEVAFCSDDLPCPNFL\LADEPTNHLG HGRIEALGPCLQTISGVGVILVSHE*SA LSRLVCRELWVC*GRRRHPCGKEGF
1179	9230	A	2126	39	2220	GASFPGVPEWNMATCAEILRSEFPEDGQ VFDYVTGVLHSGSADFESVDDLVEAVG ELLQEVSGDSKDDAGIRAVCQRMNTL RLAEPQSQGNSQVLLDAPIQLSKITENYD CGTKLPGLLKREQSSTVNAKKLEKAEAR LKAKLRKRSEKDTLKTSNPLVLEEASAS QAGSRKESRLESSGKNKSYDVRIENFDV SFGDRVLLAGADVNLAWGRRYGLVGR NGLGKTTLKMLATRS\RVPAHISLLHV EQEVAGDDTPALQS\VLESDSVREDLLR RERELT\SQIAAGRAEGSEAAELA\KIYAK LEEIEADKAPARASVILAGLGFTPKMQQ QPNPGVSQVAWRMLALAGALFARPD LLLLDEPTNMLDVRAILWLENYLTWPS TILVVSHDRNFLNAIATDIHLHSQRIDGY R\GDFETFIKSKQERRAQ\QQREYEAQQQ YRQHIQVFIDRFRYNANRASQVQSKLKM LEKLSLKPVDKES*VVMKFP*WV*EAL RRPFCSLDEVDFYDYPKHVIFKRLSVSA DLESRICVVGENGAGKST\MLKLL\GDL APVRG\LRHAHRNLKIGY\FSQHHVEAA WT*TSVLVELLARKFPGRPEEYRHQLG RYGISGELAMRPLASLSGGQKSRVAFQ MTMPCPNFYILDEPTNHL\DMETIEALGR ALNNFRGGVILVSHDERFIRLVCRELWG

						MRRRRVTRVEGGFDQYRALLQEQRRE GFL
1180	9231	A	2127	45	339	PPRTPSV PAG*L.RAS/STPPRSSSSSSSSSP RKGLSLRPQEALPPPPPCSSRAPSAPR GGRGETPNKGTGGSCLCQSCHHPPVDVQ AVLNKCFEAD
1181	9232	A	2128	484	1879	FQGQRMAGELKPSCNLEQSILLAKGTS GSSLTALISQVLKAP*VYVFGELLELCNV HELAE*ANAAYLQLLNLFAYGTYPDYIA NKESLP*LSTAQQNKLKHLTIVSLASRM KCIPIYVLLKDLEMRNLRELEDLIEAVY TDIIQGLDQRNQLLEVDFCIGRDIRKKD INNIVKTLHEWCDGCEAALLGIEQQVLR ANQYKENHNR/TLQQQVEAEDVYILPQS GNDCRGLRFVSSLIGGVRCVHLKHKG AVVWEAIEEGEALPGKYRLKGGRSVWA AAVRVCMQDQVINIKTLKATASSAQ EMEQQLAERECPPHAEQRQPTKKMSKV KGLVSSSPLGPAGAAGTHQAWVRWGG DTKGFPPLSTCSEFQTCSPHQRLPTLL VLFQKNCYSPSPSPSCSLQTQGLHQC HPKTGSDTAQLPSRRFLSLCKGLVSLPVF LLLPRHFVRLVISRRQL
1182	9233	A	2129	225	413	
1183	9234	A	213	1	126	FRAWTRSRERRRRRKRSSSGSEKFDK K*KKNSSRKKQHEE
1184	9235	A	2130	356	1024	GRAEPEDLENGESSAELDYQDPDATSL KYVSG*CHPPSGWG/HEDALIVHCVDDS GHWGRGGLFTALGKA/SPLKPRKIYELA GENEKTLSLGGVLLFPV***KIQDTKGKI CWP*LWLSIVNRSNVLSGI*DGSPIRRA* RRY/CLAAKKAGKSSVQPPHVLDMPRK GFKRVGVPEPTLFGKHPGLQRGHPQPYH ILFPLEGKSACPFHSQFFILPSLKDSWCP
1185	9236	A	2131	3	205	
1186	9237	A	2132	3	205	
1187	9238	A	2133	1	428	
1188	9239	A	2134	36	417	QAFRKFPLFDRVLVERSAAETVTKGGI MLPEKSQGVQLQATVVAVGSGSKGKG EIQPVSVKVGDKVLLPEYGGTKVVLDDK VCKP**F*KEVRYLQLVVLTNQGFHLQD YFLFRDGDILGKYVD
1189	9240	A	2135	496	751	ISLLNKHPSFFKGGEIQPVSVKVGDKVL LPEYGGTKVVLDDK/DV*T**F*KEVRYL QLVVSTKGFFHLQDYFLFRDGDILGKYV D

1190	9241	C	2136	92	265	MSLVIRFIHKGEIWEIYMTERTISGTSSGM GRHHVDAISNSDLFQSTVLSKNCNNL*
1191	9242	A	2137	330	875	AYAAGFGDSCLIAMSGRGKQ*GKVFVAK AKSRSSRAGLQPPGGRVHRLRLKGNYA ERVVAGAPVYLA*AAVLEYLTAELVELA GNAARDNKKTRIIPRHLQLGHPATTEEL NKLA*GRVTICFRGGVPS*TSRAVLALPK KTESSPQGGQSDFDRLPRKRYSNP KGSFSEAPLPFQRKS
1192	9243	A	2138	25	414	
1193	9244	A	2139	1	65	RTRGRTRGNLSFI*NHM*QIA
1194	9245	A	214	90	943	SPLADTFLSSGLGRTASPRPKAEARGTGR VRGLRRAVRASPRGMGRSRSSSRSKH TKSSKHKKRSRSDKERVVRKRSK SREK*ARNRRRESRSRST/RHWPCPGAS GTGSAPRPTASTSSGARRASAGSLDE KQKARGGGEESGVPSGSEKFSKK*KKN SSRKKQHEE*KNW*QKRVEEELEKRKDE IEREVLRRVEEAKRIMEKQLLEELERQRQ AELAAQKAREEEERAKREELERILEENN RKIAEAQAKLAEEQLRIVEEQRKIHEER MK
1195	9246	A	2140	293	444	SPSGYGR*SEASRRPTWCSQFQLRQPPHP EPPKSATWNQTPNIGNLSLPL
1196	9247	A	2141	544	1553	CQMRSCDRTECSFTTARICLSPLTAFT HTYGPKSCRSPACDVLGGRSCRGGWL RLASAWCSARVSAGSALRFPMESEM ETQSAGAEEGFTQVTRKGGRAKKRQA EQLSAAEGGDAGRMDTEEARPAKRPV FPPLCGDGLSGKEETRKIPV PANRYTPL KENWMKIFTPIVEHLGLQIRFNLKSRNV EIRTCKETKDVSDDKQTDVFKAFILG LSGWKE*HLTLRLADDFLE\SFETDVKP LKG\DHLSRAIGRIA/GAKEGKTKFTIEN VTRTTIVLADV K VHILG\SFQNIKMARTA ICNLILGNPPSKVYGNIRAVASRSADRF
1197	9248	A	2142	1055	1223	SSPGNLNVQEGFRITGLICY*KQYQY*MC FLFLL/SLYVCVVFDFLLLLLFCHPLH
1198	9249	A	2143	2	256	SPGRTAMRSWSCRPCGGGGLG/SSQGRS EPGSSRLGPAPS/CGLTHPCRRGPSCPHPC PAGCRTCGGICPGPHPTSRCPPSRNCGQT
1199	9250	B	2144	1	2848	MARRPRNSRAWHFVLSAARRDADARA VALAGSTNWGYDSDGQLLQVTCLSLTG SWLWDAGVPAGSAVFDCAACPVPSPNG PAVCCGQEHSDSDPEYSTLPPSIPSAV PVTGESFCDCAGQSEASFCSSLHSAHRG RDCRCGEDEYFDWVWDDLKSSATLL SCDNRKVSFHMESYCGTAAIRGKELGE GQHFWEIKMTSPVYGTDMMVGIGTSDV DLDKYRHTFCSLGRDEDSWGLSYTGLL HHKGDKTS
1200	9251	A	2145	3	630	RSGGSSASSGRAEARDCWGGRSLPGDR TLEPCGGCNSCSGSPACCVAPA*GPAA AADPPACLPSLAAAGAGGGSTGTGK/C AGTG/GG*PSCCSGPPWSTPSGRISC/CCS LVAATPGREGPSLYTSCS*KR*VCRARCP GARQ*WSPGRTATRSWSCRPCGGGGPC RRGPSCPHPCPAGCRTCGGICPGPHPTSR CPPSCRCRRRERS
1201	9252	A	2146	16	716	SVLESKGQRNKGQRKGPVPAQEGSSTG KSVRSGGASLWQGGQSRTAGVGGGRC PGDRTLEPCGGCNSCSGSPACCVAPA* GPAAAADPPACLPSLGRS\CAGGGSTGT GGKWRWHRS*PSCCSGPPWSTPSGRIS C/CCSLV/CCHTY/ITSCS*KR*VCRARCPG ARQ*WSPGRTATRSWSCRPCGGGGPCR RGPSCPHPCPAGCRTCGGICPGPHPTSRC PPSCRCRRRERS

1202	9253	A	2148	123	488	LKCNFRLDKYCGGTAMSGGEQKPERYY VGVDVGTGSVRAALVDQSGVLLAFADQ PIKNWEPQFNHHEQSSEDIWAACC/VCH KGDSHRNVIMWLDHRAVSQVNRINETK HSVLQYVGGVMSVE
1203	9254	A	2149	2	321	
1204	9255	A	215	739	857	IIPSPNSNQLNPP***FPGNYY*YFNITQI NKDNYKTE
1205	9256	A	2150	257	565	INKDPIFVPGVWGPYFSAMVPGFWLNE GGQSVTGKLDILSTNTPHPITILGNTNSIL KTQLQHQKPFLLITSPHIPKTPQTSRTDQA SFLCSPSSDSLQILSL
1206	9257	A	2151	1	291	VADLT.LKGMVTGLKLFQDLEYLAILYLA TVQAIALGTRFIEAMEAAGHSISTLFLCG GLSKNPLFVQMHADITGSNGKNEQSWE SCVPETTG*KIL
1207	9258	A	2152	1	1690	FRDDPRVRARLRAESVYLKFNFRLDKYC GGTALSGGEQKPERYYVGVDVGTGSVR AALVD\QSGVLLAFADQPIKNWEPQFNH HEQSSEDIWAACCVTKKVQQIDLNQI RGLGFDATCSLVLDKQFHLPLVNQEGD SHRNVIMWLDHRAVSQVNRINETKHSV LQYVGGVMSVEMQAPKLLWLKENLREI CWDKAGHFFDLPDFLSWKATGVTARSL CSLVCKWTYSAEKGWDDSFWMIGLED FVADNYSKIGNQVLPFGASLGNLTPEA ARDLGLLPGLIAVAASLIDAHAGGLGVIG AHVRGHLHL*GAASDVT.LAVICGTSS CHMGISKDPIFVPGVWGPYFSAMVPGF WLNEGGQSVTGKLDHBMVQGHAAFPPEL QVKATARMPEYILHI*TVTWDL*GRVQ PVGFSTV*FYMFGPDFHGNRSLADLT.L KGMVTGLKLSQDLDDLAILYLATVQAIA LGTRFIEAMEAAGPL/ESSTLFLCGGLSQ E/YPLFVQMHADITGMPVVPVARGGSPF LCAAVALGACASGDFASVTEAMAKMS KVGKVVFPRLPE
1208	9259	A	2153	1	479	AATSWGAAQTISSPILDKSLPADISIEDQQ CLVFRDVAPQAPVHFLVIPKKPIPRISQA EEEDQQLLGHLLLVAKQTAKAEGLDG YRLGE*LLALGSPMNSHSYFSI*SSFFDL CHDPDSLTPSSISVINDGKLGASVYHLH IHVLGGRQLQWPPG
1209	9260	A	2154	284	604	RERRDIGGCWSSSSAWGNPREWGFLGN DQGRCTGSLRGPTSREHKTLAGPHKRIV SWGSCPRIRGEDGWGCSPRSWSLAGAL ATFIP*KAPFPRITPG*RRRPAATYVPPLS L*LLGHLTPMWLSRQQLRGLGDGYRL VINDGKLGA/QSVYHLHIHVLGGRQLQW PPG
1210	9261	A	2155	496	1579	NCLNSFSCSMNQMYLLIALMTIEYNLAY DSYYICHIFIKIVYKLTDFFLQMRIL*ILM QIFW*GSLFLL**FQLIRDLPPAFSLR*KL CPHLLKYKILWKQILVLC*R*ILILMC DLFALSGIIVFLSFIMRKFSHL*VTVKFIY MSIPRRPVQIL*EHLGLQDIIIGI*ILISCY** ENRYSIVIPLF/CF/VILITHFGFFSLF*I*LL VFV**F*FNNPNQQYI*FI/CFLSNLTTFFL CFLVGG*/CFVKGIIV*DHCFTCTLHV *STFIY*AF*GLE*FHQMNTFW*FVMSSSN CYTLLGT*Q*ICKGKRNNFLYSANLFI** IIHFFLKIVWIDCF*NTNLWLWFFFSSAFP ASK
1211	9262	B	2156	302	451	XEFLFKHPKRTATLSMRNTSVMKKGIF SAEFLKVFLPSLLSHLLAIGLG*

1212	9263	A	2157	1	765	PPLSPGAHVGRGAPTSAPPPAAEAHPA ARRGLRSPQLPSGAMSQNGAPGMQEES LQGSWVELHFSNNGNGGSVPASVSIYNG DMEKILLDAQHESGRSSSSKSSHCDSPPRS QTPQDTNRASETDTHSIGEKNSSQSEED DIERRKEVESILKKNSDWIWDWSSSAGKI FPPKEFLFKHPEAARPTLQA*GNRAVMK KGGIFSA/ENFLKVFLPSLALLSHFAGPSG LGVIYIGKGVLTSTSTFWMKELGVLTIV R
1213	9264	A	2158	1	381	
1214	9265	A	2159	2	312	
1215	9266	A	216	263	425	FAFQKFYIYTYF*KHTL/WLGAVAHGCN PSTLGGQGGQIT*DEEFETTLDKMVKS
1216	9267	A	2160	1	576	
1217	9268	A	2161	2	313	VSYYHFHRMEKAHPEPGTWDSFLEKFM AGE/VWA*LEEGGCEAEGWWL*RTATL CRCPLPASLVSYGSWYQHVQEWWELSR THPVLVLFYEDMKEVRPTVMLPPM
1218	9269	A	2162	901	1848	RRNMELIQDTS\RP\PLEYV\KGVPLIKYF AEALGPLQSFQARPDDLINTYPKSGTT WVSQIL\DMYQGGDLEKCN\RAPIYVRV PFLEFKAP\GIPLRMETL\KDTAPARLIK HLPLA\LLPQTLLDQKV\VVVYVAAQRKR SVAVSYYHFYHMAKV\HPEPGTWDSF LGESSVLV*KVVLADSWYQHVQEWWEL NRTHPVLV\LFYEDMKENPEKGRFQKDP WSLGGRSLQEKTDGFQ\VOHTSFKEMK KNP\MTNLHPTVPPGSSMDH\SISPLP*GK GMAGDWKT\TFTVAQNERVFDADYAEK MAGCSLSF\RSEL
1219	9270	A	2163	3	287	
1220	9271	A	2164	75	301	AHKKLRAAPLAPMTGTH*K\VFVKAGD KVKAGN\PSWVMFPMKMEHTIKSPKDG TVKKVFYREGAQANRHHSFSRV
1221	9272	B	2165	63	368	MKGGRSPASPAKADGSHCDPKTAPKAK EAPAPPKAEAKAKALKAKKAVLKGVR HTQKRRSACHSPSGGPRHCDSGGSPDIL GRAPPGETSVATMLSSKFR*
1222	9273	A	2166	153	370	LIAGAFRKASGGNNIFRRPKTL*LRRQPR *PQKSTPRRNKLGHYAIKFPLTTESAVK KIBETNTLVFTVLV
1223	9274	A	2167	842	1770	CTPEKCLPAVHRRNWLRNAEPPVWKRH LSPICRKRQGRATKPKRRPWYTTPTTR VRDVALRPYSRH/GRQPHAKKKIRMSLT FRRPKTLRLRRQPRYPRKSTPRRNKLGH YAIKFPLTTESAVKKIBENNTLVFTVDV KANKHQIRQAVKKLYDSVAKHTEERR HDEQNNILTREAKNRNDNTRNRARTETN TETQKNSGYQALISFHSYYSDTSDNKAH LVSYQSGQCTYDRLGWNLIRMTCRSL QHTYDIQSTQIASCFHPVSVRVNRLRYC ANYGGISAVFMPLRKELLILTRSSNSKVS QLRI
1224	9275	A	2168	3	281	
1225	9276	A	2169	353	605	EMAPKAKEAPAHPKAEAKAKALKAKK AVLKGVRSH/RKKKIRMSLTFRRPKTLR LRRQPRYPRKSTPRRNKLGHYAIKFPLT T
1226	9277	A	217	2	660	FVTRPDAGVMRLPLVLLAVLLAVLCK VYGLGFSGSSPNPSEDVVRPPAPLVTDK EARKKVLKQAFSANQVPEKLDVVVIGS GFGGLAAAILAKAGKRVLVLEQHTKA GGCCHTFGKNGLEFDTGIHYIGRMEEGSI GRFILDQITEGQLDWAPLSSPF\CMVLEG P/KWPKGVPHVQWRESLHSGPQG/GSFH RRKLSLTSI*SWLRWYPVEPLMPSC

1227	9278	A	2170	301	946	PGSYLKPLSWTVALSRLRPGFMSRWPCQR LTWQRRSVTQASGASGASLCASRLPRDK TAPKAKEAPAPPKAEAKAKALPKKAV VERCPHTHAKKRIRMSPTFRPKTLRLR RQPRYPKSTPRRNKLGHYAIK\FPLTTE \SAGKKNKNNNTPLVHCGC*RPTRHQIR QAVKKLYDSDVAKVTTLICPDKEKKA YVRLAPDYDALDVANKIGII
1228	9279	A	2171	1	1602	
1229	9280	A	2172	243	620	LLTSSKVMNLSLLEVFS/VSSSQSPSPGP NHTSNSSNASNATVVPQNSSARSTCSLT ALAAHFSENLIKHVQGWADHAEKQAS RLREEAHNMGTIHMSEICTELKNLRLSV RVCEIQATLREQR
1230	9281	A	2173	3	688	QRSFLRVQSPPIPLLQDPNLLRQLLPAL QATLQLNNSNVDISKINEVLTAADVQAS LQSIHKFLTAGPSAFNITSLISQAAQLST QAQPSNQSPMSLTSDASSPRSYVSPRIST PQTNTVPIKPLISTPPVSSQPKVSTPVVKQ GPVSQSATQQPVTAG/PGPRS/SEPVSPRR SSALK*PEKSITWVPIHTSNSSNGIQMAT VVPQEFFLARSTCSLTAGTSSTLQ
1231	9282	C	2174	1	1038	MEDFTTPLSTLASSMRQKVNKDIQDLDS ALQQADVIDIYRTLHPKSTEYTFFSALHC TYSKSDHVGSKALLSKCKRTEITNCVS DHSAIKLEFRIKKLTQNRITTWKLNLL LNDYWVDNEMKAEIKVFFETTQHDQNF TKARCIQEHRTPYQSFKLKAETRDPSF TKNVQKMKRVRDADLAVAALSRLRGK VWVKAWPPLRGCRCLVGCFLAFCIRSL MDVKHSCPVCQRELFYYHRLPRPSRSA YLAVRDIGPKMARDTVNLWPQARDPSE NASPALLQTHAEKVLVRRVGSGLGTTLP RRGDDPTPERQISFLKCLLKLSHGFGSE GAMPEEISH*
1232	9283	A	2175	1	1312	MGRNQSRKAENSKHESTYSPPKDHSSSQ AMEQSWTENGFEKLGFRKEALYYLDL TASCQSQELFQLYAGMSVVGTSMPVQA VCPYCGNRIITVTTFPGALTWLLCTTLF LFGYVLGCCFLAFCIRSLMDVKHSCPVC QRELFYYHRLRQMEASSARTVVAPSRP CAGREGRGDANGKNSSPTAGSAMSSEPP PPPQPPTHQA\GVGLDTPRSRERSPSPL RGNVVPSPLPTRTRTFSATVR\ASQGP VYKGV\CKCFCSQRAIGFNYPAGWAG PDIF/LWHIS*LWKGGVIVPSGKGDEGHP NKMCSHPHPKE*R/IAARPVKVVHHLTL APQAPKHET\WS\GHVISSLGGLVESTPLS LCFVGDFAGRRQQTLEDDILPHETGLQR GNGPSQVSPGCKGYGGAGVGCGVFPAIS TAYGPLQQPLHHLKSIKSI
1233	9284	A	2176	75	411	PIITKEHLFYVILVPSSGLDGIQG*SQKEG RGLAVPTPVSAAGLPAASMAEEAADQ VGRAALAWLCPAGRRRGFGGEVMRAL VASRPDLLTSSASSGVALGSEGRVKASA D
1234	9285	A	2177	1	361	GIKRRSGREATRALITSPNPFRRPAGQS QARAARPTWSAASSAMEAAGSPAATET GKYIASTQRPDGTWRKQRRVKEGYVPQ RRSQYMKTSM*SFSRVNQSCPQG*ALRP LLSPHPGPEGGEPLQGGQPNVNLEGE REKEAAAGKRKERAEGLSKDS*LRCPW EETAQLPSAPQGSRAAPTAASDQPDAA TTEKAKKIKNLKKKLRQVEELQQRQAG EVSQPSKEQLEKLARRRALEEELEDEL GL*GLSPEATAPVTPSRA
1235	9286	A	218	151	414	ERERESVCVCMCVRV/CV/CLRERERQ RQRDKRLCGEMRKIQYVKNLHYI/SKYL YIYKYVILQT*TFIHIYIYLYK*ICIHTQMY

					AVY
1236	9287	A	2182	3	140
1237	9288	A	2183	365	2078
					NLVHCHCLDIFINQAFDMQRDLQITPKR LEYTRKKENELYESLMNIANRKQEEMK DMIVETLNTMKEELDDATNMEFKDVIV PESGEPVGTREIKCCIRQIQELIISRLNQA VANKLISSVDYLRESFVGTLERCLQSLEK SQDVSVHITSNYLKQILNAAHYHVEVTFH SGSSVTRMLWEQIKQIQRITWVSPPAITL EWKRKVAQEAIESLSASKLAKSICSQFRT RLNSSHEAFAASLRQLEAGHSGRLAEKTE DLWLRVRKDHAPRLARLSLESCSFTGC LCLHRKPVKLGQELGRGQYGVVYLCDN WGGHFPCALKSVVPPDEKHWNDLAEF HYMRSLPKHERLVDLHGSVIDYNYGGG SSIAVLLIMERLHRDLYTGLKAGLTLETR LQIALDVVEGIRFLHSQGLVHRDIKKNV LLDKQNRKITDLGFCCKPEAMMSGSIVG TPIHMAPELFTGKYDNSVDVYAFGILFW YICSGSVKLPEAFERCASKDHLWNNVRR GARPERLPVFDEECWQLMEACWDGDPL KRPLLGIQPMLOQI/L*NRLCKSNSEQP NRGLDDST
1238	9289	A	2184	2	468
					GPEAVPHRACSLWLPTSPGPTCPATRHS EHEFTFQMWPGCASSLLCVGTPGEARA DHRCMRVTPVHLGLPGWVGAGARPH CCESATPGGPRGCPTP/DDWVAAHIPPSF HK*GNPGCIRGDPGRGLLWPLCPMTCVAS DKAPALLGSACCSVWSVR
1239	9290	A	2185	170	1224
					PVWRGPAGPTPGIPSTTEKHTRLPSANM MVLKVVEELVTGKKNNGEAGEFLPED FRDGEY*AAVTLAERQEDLKTLLAHPVTL GEPQLRKRETHERAELKKKKLEQRSKLE NLEDLEIIIQL*EK/RKKSRETKVPVLKDP EP*IHYGTCWECPTFLKA/SLWENNLPPV EKFLSDKNNPDVCDEYKRTALHRACLE GHLAIVEKLMEAGAQIEFRDMLESTAIH WASRGGNLDVLKLLLNKGAKISARDKL LSTALHVAVRTGHL*GCAEHLIACEADL NAKDREGDTPHDAVRLNRYKMIRLLI MYGADLNIKNCAGKTPMDLVLHWQNG TKAIFDSLRENSYKTSRIATF
1240	9291	A	219	4	328
					HGVSLFPRLECNGTISAHHNLRLLS*SD SPASASQVAGITGMHHHARLLI/YFLVEM GFLHVGQAGLELPTSGDPTLPWPSPKCW DYRREPTSPGPQTYIITQSKSSP
1241	9292	A	2190	93	458
					LLLWTMSVIFACVVRVRDGLPLSASTD FYHTQDFLEWRRRLKSLALRLAQYPGR GSAEGCDFSIHSHQVKVWHFNYVSSSQ MECSLEKIQEELKLQPPAVLTLEDTDVA NGVMNGHTPM
1242	9293	A	2191	1077	1818
					LLLWTMSVIFACVVRVRDGLPLSASTD FYHTQDFLEWRRRLKSLALRLAQYPGR GSAEGCDFSIHFS/SFGDVACMAICSCQC PAAMAF/CFLAETLWWEF/TASYDTTCIGL ASRPYAFLEFDSIIQVKVWHFNYVSSSQ MECSLEKIQEELKLQPPAVLTLEDTDVA NGVMNGHTPMHLEPAPNFRMEPVTALG ILSLILNIMCAALNLQPVQHVYLQQLDLG AH/HRKSFIGREKGNILVF*VDMIQ
1243	9294	A	2192	1	999
1244	9295	A	2193	1544	1928
					QKVRGQIREGCLEEVAGSSRPPAHVCL GLPTGQTADGKSYVKYQVIGKNHVAVP THFFKVLEAAGGQNELRTYVMPNAP VDEAIPLEAFLVPIESIERASGALLFVQNIL ARAGSLKAITAGSK

1245	9296	A	2194	2	1068	ARGWVPRPKPLAVFVSGREVTLSAAPA ALCPRWIPRRGSFKSLAGRPPLGRSPAM RALRAGLTASGAGLGAVVEGWRRRRE DARAALGLLGRLPVLFPVAAAELPPVPG GPRGPGELAKYGLPGLAQLKSRESYVLC YDPRTRGALWVVEQLRPERLRGDGDRR ECDFREDDSVHAYHRATNADYRGSGFD RGHLAAAANHRWSQKAMDDTFYLSKV APQVP\HSNQIAWNNL\EKYSR\SLTRSYQ NVYCLH*GHFFLPRTEAD\GKSYVKYQV IGKNHVAVPTHFFKVLILEAAGGQIELRT YVMPNAPVDEAIPLERFLVPIESIERASG LLFVFNILARAGSLKAITAGSK
1246	9297	A	2195	204	507	GSPGTRSETREPGAMSQPPAPPPLPPPP PPEAPQTPSSLASAAASGGL*SGETGESF PGAARISVRRVYFSRPPVLSASSVPSAA SGTSSNSCWGLRR
1247	9298	A	2196	1	460	EFKQLIHIEHQPNGGASVIHAYSNELSHL SPMEMERFARKSLVGS*CSSENENSGSFP T*WGIV\HGAATYLP\DFLDYFSFNFP\NS P\VKMEILGKKDIETTMSNFHAQSLTVL QPGRQSETPSQKKRKKFMIMLSSRWEGE TKNKYRRLTN
1248	9299	A	2197	199	769	
1249	9300	A	2198	182	2889	TEKGAAAGTAGSCSRRQHASPQSYGSPA SWSFAPLSAAPSPSSSRSSFSAGTAVPS SASASLSQPEPRKLLVPPTLLHAQPHLL LPAAAAASANAKSRRPKEREKERRR HGLGGAREAGGASREENGEVKPLPRAN DKTRSFDDFSPDQAAECLSIRKRRILKG SCQTGYLRKALFSDTVTLGIKASTYGFW GGM\QSI\KGLAETFNFWIHIWELNDLQ YISALFACSEEMPDYHLEKQLADKIKDKI KERDKEKEREKKKKHVMNEIKKENG KILLKSGKEPKTNIEDLQIKKVKKKKK KKHKEKRRPKMYSKSIQTICSGLLT DVEDQAAKGFLNDNIKDYGKNDLTK NYDSKIPENSEFPFVSLKEPRVQNNLKR DTLLEFKQLIHIEHQPNGGASVIHAYSNE LSHLSPM\EGWERFAEEFVG/L*VFSENE NSAAFYVMGIVHGAATYLPDFLDYFSFN FPNSPVKMEILGKKDIETTMSNFHAQV KRTYSHGTYRAGPMRQISLVGAVDEEV GDYFPEFLDMLEESFPLKCTLPWGTSSL KLQSRKSDDDGPMWVRPGEQMIPVAD MPKSPFKRRTTNEIKNLQYLPRTSEPRE MLFEDRTRAHADHIGQGFERQTTAAGV VLKAVHCGEWPDQPRITKDVICFHAEDF LEVVRMQDLHEPPLSQCVQWVDDAK LNQLRREGIRYARIQLYDNDIYFIPRNVV HQFKTVSAVCSLAWHIRLKLYHSEEDTS QNTATHETGTSSDSTSSVLGPHTDNMIC AVSKASLDSVFSDKLHISKYELQIKHEPI ASVRIKEEPVNVNIPEKTALNNMDGKN VKAKLDHVQFAEFKIDMDSKFENSNDK LKEELCPGNLSLVDTRQHSSAHSNQDKK DDDILC
1250	9301	A	2199	2	122	
1251	9302	A	22	10	284	
1252	9303	A	220	436	777	IYSYGKTGPV*KRKNCQSRIKEQNPIICW LQATHLKCKETYKLMR/KICQANTNQ EEIGIL*NSRLYSKNYYQG***KGSILQED MTILNMYAPKNRGSGYMRQKLIELQGE
1253	9304	A	2200	1130	1437	LSRIMKAWFPLFFKIPFRDKVFFLSPPAW SAVAQSRLHCSLELVGSINSSISAS*LGW EYRCAPQCPG*FLAFFCRD GALPCCPSWS QVICLP*PPKALGLQA

1254	9305	C	2201	279	449	MHPVSCWVIMSCRPLCTRLILSDSPPGPP SDICVSRKNPSNYPAMVLPQCFTICII*
1255	9306	A	2202	1	1173	
1256	9307	A	2203	1	2112	MGVELFTPASVMGVKRCCCSIPGQLSGN GEPRFSEIDSSVSVRGGWQPRWFLCGGI LSYYDSPEDAWKGCKGSIQMAVCEIQV HSVDNTRMDLIIPGEQYFYLKARSVAER QRWLVALGSAKACLTDSRTQKDKFEAE NTENLKTMSSELRLCCDLLVQQVNKTK EVTTTGVSNSEEGIDVGTLKSTCNTFLK TLEECMQIANAAFTSELLYRTPPGSPQLA MLKSSKKVNQKYITNKEEFTTLQKIVLH EVEADVAQVRNSATEALLWLKRGKFL KGFLTEVKNGEKDIQTALSFSSN/SCT/CI WRLGPGDVLTL*RKRL*RANAAL*LQ* SQPVSAFSSLSP/CGTIFNGKEKGGCKFD IFVLMFRLISKKTQTQQALRRFFEKCLH NSYSEPVGSLMHSSGIMVPFHFEPVAFI SRDTLTFEMREDNAYGKTLRQHHGWVV RGVFALALRAAPSYEDFVAALTVKEGD HQKEAFSIGMQRDLSLYLPAMEKQLAIL DTLYEVHGLEDEVLYPLGCLDCCPEGE QSWFQKKNVFGCLSQLPVGRGVQLPCG HEGPAKENRVWLCMLAITPESAEAQNR DNHLWSSVVRVDGELMNDGLTSALRT QITFGMICCVNALSSNKVVASLLTLVRF TAAPSLPTLHCVSRHLQVEDPHLVMSVC ECGTTISLPEPRSQLQCSTAVSQLEDSSR MAEH
1257	9308	A	2208	132	509	NMVQTTGPGMLMSTPCTGPAQARR*K/ WLVVECLSLTGMGPGEGRGQGAEEAP N*VLGTPAGGSGPCPPGIQQTTPSPHQP SQVLSSLSPTPRICPGFLAYLLSLFTPREE LQLTQNDTFLAPRV
1258	9309	A	221	212	275	FLILNCNSF*KIYPKYKSLIR
1259	9310	A	2218	491	812	
1260	9311	A	2219	2	948	IFKIAFAKFGVWAGEWGREGMGSRKWS ARAAAQRAEPRSGRQVRPRALRLPPARQ PRQLEPSRPPAAAPESPSSSAMAGWN AYIDNLMADGTICVTGAIVRYQDSEPPF WHAVPGK/TRFVNITPAEVGCPWLAKTR SSFLR*MGLTLWGGQKICSVNRGLHCLQ EWGIIACDLRYQEPPGGAPHLISVTCHPR LNKDAKSWLMGQRKVSHGGLTNKKCY VEMASHLSGFPSTDLRLVPFPLSPFPTAFA PLSLPIHTQTNFYFLGPLPHTPYCCQNHM GLGGQGLMGQTPSPTHIPSRVWLEKLLF FGVFFFSE
1261	9312	A	222	770	1573	NHLEIVNLCNVGISQSFPQI*LKAQATKE KINCIPIKLKTFG/TEKYIKNVKRQYIE*Q KISANHLSDKRLVFRIYFLKTITVQY*KD KPIIK*VKDLNR/HFSKEDT/YMTNKYMK RC*KSSSTIREM*IKTTMR*TLPHYRWNIK KTDNNNC**GCG*TGILHCWLECKIMY P/IFRTV*QFPEKVKQHYPDAAILLLGIY PRNMK/SKCLPKNYTRMFITELLILKK*K QLKC/PIN**W/IK*NDKMW*IHMIKYSA IKRHRVLINA
1262	9313	A	2221	259	941	PVSWSLNSCRFFFFF*DQSLPSVV/QAGS GQ*RNLDLQPLASRFK*FSSSRLLSSW DYRHMATMARLIFILVEMGF/MLARL VLNFLTSSDPPTSAPKWLGLQGVKPN RAVGFN**LGYYSIILYHSNSPGTDLVFI FIYLFYTLFLRQEQNSAAQARVQ*WHNL GSLQSPPPGVH*FLCLSLPSSWDYRCAPP HQAQNCIF*RDGVFPCWPGWSRTPDLR

1263	9314	A	2222	343	600	MSPLSQFVDGTLKIQCYYGTFEHSVA RLECIGMISAHCNLCPLGSSNSPASAS*IA GHAP/CHHAPLIFVFL*ROGFTRIYFFK
1264	9315	A	2223	142	583	
1265	9316	A	2224	163	1603	IQAGQCGNQIGAKFWEVVSDEHGIDPTG TY\HGSDSLQ\LDRI\VVYNEATG\GKY VP\RAIL\VDLEPGTMDSV\RSPPFGQIFRP DNFVFGQVWGQVTTWAK\GHYTEGAE LVDS\LDVVRKEAE\SCDCLQGFQ\TH SLG\GGTSGMGTLTYQQGFEKEYPDRI MNTFVSVP\SPKCLDTVVEPYNATLSVH QLVENTDETYCIDNEALYDUCFRTLKLT TPTYGDLNHLVSATIE\CVVTTCLRFP\GQ LN\ADLRK\LA\NMVPPRL\HFFMPGFA PLTSRG\SQYRALT\PELTPARSFPAK NMMAAC\DPROGPINFNRLSSRSGGC PMKEGRMKQML*RCCKN\NSSYFCGNE SPNNVK\TAVCDIPTSWASKMAVTFVIGQ *HSPSQELFK\RI\SEQFTA\MFRRKAFVH WYTGEGM\DEMEFTEA\ESNMNDLRL*S IKQLPRMPTQEEEEEDFGEEARKRRPKGR APNQLKASQFF
1266	9317	A	2225	234	1374	KSGGLRRRQRPGRSAAVGEEELPPGMEK FKAAMLLGSGVDALGYRNVCKENSTVG MKIQEELQPV\GGLGHLVLSPEWVPSD NTIMHIATAEALTTDYWCLDDLYREMV RCYVEIVEKLPERRPDPATIEGCAQLKPN NYLLAWHTPFNEKSGSGFAATKAMCIG LRYWKPERLETIEVSVEGGRMTHNHPT GFLGSLCTALFVSFAAQGKPLVQWGRD MLRAVPLAEKYCRKTIRHTAEYQEHWF YFEAKWQFYLEERKISKDSKNKAIFPDN YDAEERE*TYRKWSSEGRGRRGHADP MIA\YDALLAAGNSWTELCHRAMFHGGE SAATGVTIAACLFGLLYGLDLVPKGLSQD LEDKEKLEDLGAALYRLSTEKK
1267	9318	A	2226	139	366	AMAYQLYRNTTLGNSLQESLDELIQGS NTYRFCDNVWTFVLNDVEFREVELIKV DKVKIVACDGKNTG\SNTE
1268	9319	A	2227	160	588	AMAYQLFRILPLETSFQESLD*LIQSQQI TPPTCPFKFYQLQDRA\NAALAQRVRN R\VNFRGSPKYGTRFC\DNVGDVWYRND VEFQRG*PEPIKRG*K*KLVA\CDGKNTG LPIPTEWNRKKYDFFYTHLLLFIAREEA
1269	9320	A	2228	918	1085	QEKLFI*VLCFNFFSFFFFFCFL\VD*F*FL FGKGAV*TLFVFSSASHRYRQKTR
1270	9321	A	2229	145	365	
1271	9322	A	223	86	427	SPQIRKQEISI/SLTDTGILYIENPKESPP KLLKVIKFNKATRFKINMQKSUVFLHPR N/QFENEFKKILSFGTEPS/RSEYLGINITK EV*NLNTKNDIVEKMKELLSKWKDSPC
1272	9323	A	2230	2	750	ILGFDLQPPGRRWAAPAV\SGLSRKVRC FSTG*VRPFAKLVGPSVQVYGIEGRYA T\ALYSAASKQNK\LE\QLEKELLRVAQN PRRNPKVACFLFLNPLCESRSIKSEKALN DITSKKRRFSPPSTTQ/LLNQFCLAGKMG PI*ANNPKGVV\SGLFLTMDGVFHSRERV PLHSGPLASSFRKESHLLNLKTVALKEFP KVKGQVLELGAK\TDPSILGGMIVRICE\ KYVDMSVKTKIQKLG\RAMREIV
1273	9324	A	2231	100	468	ATEPLAPSERREVSIPLLVAPLPPPPRPP VPSRTRTRPWRRP*ACFPMTLAASCGPT RSPWPSQQPIQPAPVG/PGNIKTLGDAY EFAVDVRDFSPEDIIVTTSNNHIEVRAEK LAADGTVM

1274	9325	A	2232	228	721	LWQLHAAPLGAPGLPRQVIRALRGGEV HREGTSAPGRHRRRCGCPVGLQVLHSL QPCVATKTDVATGTDVAMKTGNIKTLG DAYEFAVDVRDFSPEDIIVTTSNNHIEVR A/REA/ERPDGTVMNTFAHKCQLPEDVD PTSVTSALREDGSLTIRAWRHPHTEHVQ
1275	9326	A	2233	3	605	KKLTPVVRSRVERDPRVRRGLRPHVLS SLRPPGQGPAPSVDEPQNLFHLPSGEKIP FLFLLLLFTPPRPVLSRPTRPWRRP* ACFPMTLAAICGPTRSPWSPAPV/VAG NIKTL*DAYEFVVDVRDFSPEDIIVTTSN NHIEVRPEKLAADGTVMNTFAHKCQLPE DVDPTSETSALGEDGRLTIRARGHPHTE H
1276	9327	A	2234	229	510	KGIIWYINMEEQFVI*IHFL*TRSQFYFVNI TFKYITYTHIYVQLYIHVH/MICKFIFIYNIFI *IDICRQVIDYRDPKQLNCSKFSLSLA GV
1277	9328	A	2235	203	334	SRRDHSFIL*ILHLSIYIHTYMYNYIYMC YMYQRKQYGKTNP
1278	9329	A	2236	1023	1470	TPKTKHNSNPFVPHAHKFACSYFFFCLC VFMGSKLNLAIYKNVNSKLYLLRNVIF F*FIFTQLFILIYFFYTVLNTQTYFLFMIFL SCSHGICFPIFLSISITGWDLTNNVVRGR KYFATVDYYTLKFYIMKIYNSLYASKKK KKA
1279	9330	C	2237	226	450	
1280	9331	A	2238	3	449	LLRRVSVTAVAALSGRPLGTRLGFGGFL TRGFP/KAAAPVRHSGDHGKRLFVIRPSR FYDRRFLKLLRFYIALTGIPVAIFITLVNV FIGQAELAEIPEGYVPEHWEYVYRVKELE VRKLMHVRGDGPWYYYETIDKELIDHS PKATPDN
1281	9332	A	2239	3	635	HASAHASAMSLRRVSVTAVAALSGRPL LGTRLGFGGFLTRGFPKAAAPVRHSGD HGKRLFVIRPSRFYDRRFLKLLRIHLAL TGLPVTIFIALVNVFIGQAELAEFPEGYV PEHWGILLRHPISKMGFAR*FLMIGPEK DIMERNNGPSFOIGSLKAGIYGVKGSW EVRKI*WHVEEGDG/PWVLLWRPFDQGT LLDHSSRKPTPWTN
1282	9333	A	224	35	397	FLTGTQWGK/DSPFNTWC*DH/WNIHRN LDLYLIPYIKINLKQLTGPNLRAKTIKLPE QNIGENLCDL*LSRERYSTKSITIRIKL/D TLGFIKIKNCISKDTIRKR*ATDWEKIFA NHVLKG
1283	9334	A	2240	811	1005	SNFTGKIHK*LTSFKIVNLFYI/FFETGFH SLTRLECSGMILAHCNLRFPSRKLFFFG AIDSF
1284	9335	C	2241	256	540	MSPAKATEMLIFGKKLTAGEACAQGLV TEVFPDSTFQKEVWTRLKAFCKLSPNCL EIFKEVXRKRERXKLXAVNAEECNVLQG RWLSDECTNAV*

1285	9336	A	2242	602	2067	SSSSGLALGMQRPLLARLRGTPGRALSA PAATGFAELRAAQGMAMAYLAWRLAR RSCPSSLQVTSFPVVLHNMRTAMRASQ KDFENSMNQVKLALKKDPGNEVKLKY ALYKQATEGTCKMPKPGVFDLINKAK\ WDAWNALGSLPQGSCPG*NYVDLVSSL SPSIGNPPS\QVEPGTERDNQLGFETLVVT S\EDGITKIMFNRPKKKNAINTEMYHEIM RALKAASKDDSIITVLTGNGDYSSGND LTNFTDIPP/GVGVEEKANTNA\VLLR\EF VG\CFNDFPKPLDCSGSMGPSCGASPVTL LGAYSMPVLLHLDRGTFHTPF*SP*AQS PEG\SSSYTFPKIMSPA\KATEMPFIFGKE VNQREEACASRDLFTGFPWIALFRKKV WDQG*RAFCKSFPPQMALEEFSEVIRK REREKLHAVK\AEECQCPFQGWLSDE C\TNA\VVNFLSQIKNCDDHLQQHQS SQGRMCCSLCLSSTGTK
1286	9337	C	2243	2163	2402	MSQAAASHKSKLTPKNQRAPFTLLRKSQ CQDPSRGESEEGWWPIQRACRSMETFLP QMFQSWHQIYKNVSRDQFFTLK*
1287	9338	A	2249	761	1178	LSTPLTSWCWMRRITPGSPTRCSCSSA\ PGTQPLGGGHQ*RGCHQCVASSPR*AWP ASGPAKLQ*LQOPKTQORAPATGEHVPP VQPSAQ*PHSRFQSSETSRPADGSEQQPA RASGPGARRPPHQPROVINCWLRR
1288	9339	A	225	832	1043	LLWWFRLRSSPCGTQQGPWHLVCVYGY AG\GWAGPPWHTCPWDPSHCPGTE*CP WCVWFCFFCNTYLLVPN
1289	9340	A	2250	135	408	PHSRFQSSETSRPADGSEQQPARASGPGA RRPPHQPRFHPPPSA/RAISIECPA*AVMR SGSEPRARQEYSLGLWTPSQFLGILYLA RSPT
1290	9341	A	2251	123	578	TTNIFKWAKYFKRHFSRDI*MANEHM KRCLTSLTIMEMQIKTTIRCHLT/PRMPI KKIKC**GWRETGTLI/YAWWECKIVQ/P AFR/TVWQFLKRLSQHPTIPF/GMCPRET KTHHSKTY/TQMFMAALFIEARKWKQF KCLSTNEWTNVVRP
1291	9342	A	2255	209	531	
1292	9343	A	2256	1	308	AKRAQSYAERLRLGLAVIHGEAQCTELD MDDGRHSPPMVKNATVHPGLELPLMM AKEKPPITVVGDVGGRIAIIVWLYVIHV QRWHSWLLVSRLSTLGLYF
1293	9344	A	2257	2	1161	VRKGTDLGALPVPPAMNAARTGYRVF L\ANSTAV\CELAKRITERLGAEKGKSV VYQETNGETRVEIKESVRGQDIFIQTIPR DVNTAVMELLIMAYALKTACARNIIG\VI PYIPYKQSKMRKRGSI\CKLLASMLAT AGLTHITMDLHQKEIQGFFSFPV\DNLR SLHLFLAFSIIQGRKFPNLQEMQVIVG*V FLDAGKGGAQSYA\ERL\RLGFWAVHSR GEGFSCTKL\DMDDGRHSPPMVKNATV\ HPGLELPLMMAKEKPPITVVGDV\GRI AII\DDI\DVESFVAAAEILKERGAYKI YVMATHGILSAEALRLIESSVDEVVVT NTVP\HEVQKLQCPKIKTV\DISLILSEANR RIHNGESMAYLFRNITVDD
1294	9345	B	2258	80	402	XVPTVDTYDGRGDSVYVGLRSKSKFR RPDIQYPDATDEDITSHMESEELNGAYK AIPVAQDLNAPSDWDSRGKDSYETSQD DQSAETHSHKQSRLYKRKAYDESH*
1295	9346	C	2259	272	409	
1296	9347	A	226	764	1016	LLQAGAHACNPSGFGEAKAGGSTDLRS GDQPGQHGETPSLLKVQKVA*RGGAFL* SQL/LRGGGGCSEPRSHD*IPAWMTEGDS V

1297	9348	A	2260	2	628	EHSIVGTRLVSGQLQPSQPNADOGLTT MRIA VICFCLLGITCAIPVKQADSGSSEE KQLYNKYPDAVATWLNPDPSQKQNL PQTLPSKSNESHVDMDDMDDEDVDDG PCGDSQDSIDSNDSDVDDTDDSHQSDE SHHSDSEDELVTDFPTDLPATEVFTPVVP TVDTYDGRGDSVVYGLRSKSKKFRPDI QVNPLTDPDGSD
1298	9349	A	2261	67	1276	SHASGRRQSTASSGPDVSGQLQPSQPN ADQGKLTMMRIA VICFCLLGITCAIPVKQ ADSGSSEKHFVYNKYDAVATWLNPD SHKQNL LAPQNAVSSEETNDFKQETLPS KSNESHDMDDMDDEDDDHVDSDQSI DSNDSDDVDDTDDSHQSDESHHSDES DELVTDFPTALPATEVFTPVVPTVDTY DGRGD\SVVYGLRSKSK\KFRPDIKYPD ATDEDITLHMESEELNGAYKAIPVAQDL NAPSDWDSRGKDSYETSQLDD\QSAET HR\HQQ\SRLYKRKANDESNEHSDCDW* ARTFPKVSREFHSHEFSSPWRFCLFVAP KSREEDNTPLEFRYS\QELDSASSGGQLK GGKNTISPLCHLVQKKNGFIAKMKENHE MLLSPVYWLKCVSI
1299	9350	A	2262	1	651	MTAFNSGKVDIVAINDPFIDLNYMVYMF LYDSTHGKFHGTVKAENGLVINGNPIT IFQDQDPSKIKWAP/LAKVIHDNFGIIEGF MTTVHTITATQTINGPSG\NCHVMAAGL SRTSSL\LLA/LAKPVGKVIPELNGKLTG MAFHVPTANVSVADLTCRLEKPA/KYDD IKK\NTHSSTFDAGAAIVLKDHSVKLISW YDNEFGYSNRVVHLMAHNASKE
1300	9351	A	2263	2	5264	
1301	9352	A	2264	56	1357	IRLSVCSSCSTVSRIFFCVASRATSLRTPM GKVKVG VNGFGRIGRLVTRAAFN SGKV DIVAINDPFIDLNYMVYMFQYDSTHGKF HGTVKAENGLVINGNPIT\FQERDPSKI KWGDAG\AEYVVE\STGVFNQPWKKA GAHLQGGAKRVIISAPCLMPMFVVG \VNHEKY\DNSLKHSNAFLQPPTCLA\PL AKG*FHDNFG*SWEGLIDHSSMAITGNP RKTVD\GPSRG\NCGRGWAAGL\RTSSL GLYWALPKA\VGKGHP*G*TGKLTGMA FPVVPNCQNVSVVDL\TCRSRKTLPQYD *HQGRVVKQA\SEGPPQGAILGYTEAPR WVSSDCNSGPPVFPFDAGA\GIALND\H FVKLISWYDNEFGYSNRVVDLHGPHGL QGSKTPGTTEPQARGTRGRDETLTAGES LPHSDPHHTESPLTVAM
1302	9353	A	2265	34	476	LSGGPRRAASCASSAGLLVLLPFMPMFI VNTKLHRA SLPEGFLSKLATQQLAQAN RQAPPN*FAFNVPDQV\YSFGGSSEPCA L\CSLHSIGKIGGAPDPAPYSKLL\CGPAG RSRLPIQARTRV\YINY\YDMNRGQMWA GNNFHLSP
1303	9354	A	2266	63	470	QQPPPERPAHQFARPPAPFTMQPASAKW YDRRDYVFIEFCVEDSKDVNVNFEKSKL TF\SKLSFLSNDVK*SFTQLNNFDWLVS LKLILIFVSLKRLNSFFIILYSLGGSDNF KHLNEIDL FHCIDPNVSSLYA
1304	9355	A	2267	2	854	RAFCCVTSRRPASPLVCTHARSFVSLAP LFLHFPLLPDRRSRSFRAVHFWGPRSSPP HAAVRLREARRGRDRREKAESPTGEKST SPSSRRQRGPPTKVRPPAPFTMQPASA KWYDRRDYVLKWEFVFLNLTLDVNV NFAEKSPTYNFSCREGSDNF*GI*MEID LFH\CID\PNDFQGLKGTDRSIFMFVLKR RIWASSWPGLTK\ERGKGLI\W\SVDFN \NWKDWED\SDSDMSNDFRSEMMNN MGGD\EVVDYPEVDG\ADDDSDSDDE

					KMPYLE
1305	9356	A	2268	117	388
1306	9357	A	2269	66	354
1307	9358	A	227	748	1488
					RLTKRPETFPRRHPKLPTLKTPVAGATPL SPSHPDWPVFNPIPLTNRT*PPLQLQLRQ PSRSCPETTQGPASSEALPVRSPPPFR LFPTPE/PGLSRQWP*EVEGTSRTPFKAE GQK/EGKVKEGKTEGPCSPSRRLPPY SRLESGPVHWGEQGPNRKSWPPNLPDQ GF*QEREEAMGHIPSPGIRQRHRTSVQE *GSEIKPK*CPEPGKAFNRPWGLGLT/TR PLPLHSQKSRQDS*NTG
1308	9359	A	2270	148	398
					RPAKRGAAAMDGRVQLIKALLALPIRPAT RRWRNPIFPETFDGDTDLPEFIVQTAS YPWPWARTRSSARPISSPPPETSCVLA
1309	9360	A	2271	356	1241
					KVTFLITRLTGPALQVGDPLHQEGEPPO LITGAFWPEMKRVFGWGGGRGLALGRET LGPG\GGCSGEGPLCYWPPGSPAPSF RASPPLEPPARCPLRSCSLPRSACLCSRNS APGSCCRPWASLWSEPPSPSSQPAPPM YIWTLSAPVAQS*APVTHWTDHPLPL PSPLLPTRLPDDLHHFGPQTLRCQ\SHR/H PSHPHRQDCWLL/M*IWT\HLGGWAGWH SPWTVIQ\TAGR\PPRDLSPSARPISSPIPE TFCAPATWLPGLSCAWQAKFESLIFSLW TKLVFAHKRSIS
1310	9361	A	2272	2	178
1311	9362	C	2273	88	228
					MKVDKDRQMXVLEEEFQNISPEELKME LPERQPRQLRXTTDDVCRE*
1312	9363	A	2274	3	382
					VDRTIMSDSLVVCEVDPELTEKLKRF RKETDNAAIMKVDKDRQMVVLEEEFQ FVVYSYKYVHDDGRVSYPLCFIFSSPVG CKPEQQMMYAGSKTRLVQTAELTKVQT GMWLQSVRERWCGSWV
1313	9364	A	2275	89	636
					KTAE LRKEEACGQNNHALPGSLRQSDSL VVCEVDPELTEKLKRFKRFKTDNAAII MKVDKDPARWWCLEGKNFKNISQREL KMGFPRRDKPRFVVYSYKYVHD\DGAR VSYPLCFIFPPRPVGCKPE/QQMMY\AGS KNRLV\QTAELTKGVPKSRTT*LTSLRP WLAQEKLSFLSLISGAGD
1314	9365	A	2276	2	2453
1315	9366	A	2277	1	1008
1316	9367	A	2278	1	884
					MVDKCRYHQSLHKVSNSESKISSGLLL SRLQRRPRGRGDAELRRAGSVKRRQRG KMAAAVPQRAWTVEQLRSEQLPKKDI KFLQEHGSDSLAEHKLGNIKNVGKT ANKDHLVTA\YNHLFETKPF*GYLKV*S KVSEQVKKCERLMKINPKETKSERDPW NEG\PPK\YTKSCS*KRGDKTQLFPKRGD VVHACWYITGNTTKMGTVF*YLIFQISA KKKEKCPSL*GFKVRSRPKLSRGWDEA LLTMSKGEKARLEIEPEWAF\GKKGLPD AKIPNAKLTFEVELVDID

1317	9368	A	2279	3	510	AIRAVAYCADMAQSMNHTTLHQSRWH RIGIKKPRSQTQSLTGVDPMFLKNMRF AKKHNNMGLKRMQANNAKAMSARAE AIKALVKPKEAYL*IPNGVSRKLDPLAYI AHPKLAKRALARIAKGLKLCRPEALAEA RAKDQTKVQGVAPA*APIAHAPKRTQAP TKASE
1318	9369	A	228	34	478	LSPRLECSGAI*AHCNLRPPGFKQFSCSL S\SSWDYRHAPPTQLIWFYFK*RPGF QLVLVQAGLEL\LT*IPPASASQKCWD YQV*APH/WPALYKVSY*EKWPFIMFFA PFSWLSLGTEKFVRKVAVAGLTLP WALCSLWKY
1319	9370	A	2280	9	674	IERLQVRIACSCRDAIPGSSHASAHASEA LREPRNLNGADMAKSKNHTTNNQSRKW PRNGIKKPRS\QRYEFS*RGWPPQVSLR NMRFQQRSTNKKGP*RRLOANKLPRAM SATCPRLIKAPPLKAPRRFKPDPPKGV RKLDRLA\YIAQPQGLGSVARCP*LPRGP RL\CPPKAKGQGGQGA\AKDQTKGFKP RPRVQAPVS\QAPKRTQAPTKASE
1320	9371	A	2281	417	822	RENCILLSTRAQSVFNAQGTALWSFQDP ATGEGGAGHGRLMRPSLLPSQGASAC* /PRFGESKLAPVGKFKMCLLELPFLSHH LSRGCSGASEGQLCLEVPATARVGVHK PSQSRGLEFSWVLMSDLCSGPPL
1321	9372	A	2284	85	409	TCGLPMCQKQTVSWGGKTPSLRRFPQR PRPRGQPPSGARWEH/PPPGTAPRRSR RPSPPARLAGPEP*AKSPLHAANSRGQTK GHLWKTLLVLFKKNFFNFHN
1322	9373	A	2285	193	609	NQINFLNGKYTYICIDTPLYMFNIHTL KHINTSVIISLEFAI*HKGQVELHIKITYRS N*MWLGHNQRRN/LCPQEGEEIPNEA*IF SIHKQSWPGTVAHACNLITLGG*DGRIS* DQVFKTSLINIVETPSLLKK
1323	9374	A	2286	117	433	
1324	9375	A	2287	2	1923	VETPPQGSVHSGHLGSVVGDPHTGTGN AGERGPRGKGARVLALDSGGMDSSPSLP LIRTPESSLHEALDQCMTALDLFTNQFS EALS\YKPRTKESMYHSLTYATILEMQA MMTFDPQDILLAGNMMKEAQMLCQRH RRKSSVTD\SFSSLVNRPTLGQFTEEEIHA EVCYAECLLQRAALTFLQGSSHGGA\VRP RALHDP\SHACSCPPGPGRQH\FLQDEN MV\SIKGGIKVRNSYQTYKELDSL\QSS QYCKGENHPHFEGGVKLG\VGAFNL\LS MLP\TRILRLLEFVG\FSGNKDYG\LLQLEE GASGHSFRSVLCV\MLLLCYHTFLTFVLG TGNVNIEEAELKLPYLNRYPKGAIFLFF AGRIEVIKGNIDAVSDGGPGRGW\SLGV SQT\SRKSGTCDILRDRIDWGRGGPREN QPESRGRRGPGSGRAAWEDKGGGGICGA WDFDWEI*DCSIAVEGGGGRCLEAEVR KAHLFRA*RLGWSLVPLHYSSLLLFHF VTKNQSPRRGLYLSPTSCKT*EVKPGLE ARSPGSWGPT*A*HRAGPLCPGGVPVCC GVGRFGGCRGVGAGWAPVRLTRCLQ AIRRFEECCEAQQHWKQFHMCYWEL MWCFTYKQWKMSYFYADLLSKENCW SKVG

1325	9376	A	2288	1	1818	LGEGGGKKGLWDLVAGLHPLGGQQSP MGQKGHKDSLYPEGGTPESSLHEALDQ CMTALDLFLTNQFSEALSULKPRTKESM YHSLTYATILEMQAMMTFDPQDILLAGN MMKEAQMCLCQRHRRKSSVTNSFSSLVN RPTLG/QFTEEEIHAENVCYAKCLLQRAA LTFLQDENMVASFIIKGGIKVRNSYQTYKE LDSLVSQSSQYCKGENHPHFEGGVKLG GAFNLTLMLPTRILRLLEFVGFSGNKDY GLLQLEEGASGHSFRSVLCVMLLCYHT FLTFLVLTGNVNIEEAEKLLKPYLNRY KGAIPLFFAGRIEVIKGNIDAAIRRFEECC EAQQHWKQFHIMCYWELMWCFTYKG QWKMSYFYADLLSKENCWSKATYIYM KAAYLMSFVGKEDHKPFGDDEVELFRAV PGLKLKIAKSLPTEKFAIRKSRRYFSSN PISLPVPALEMMYIWNQYAVIGKQPKLT DGILEIITKAEEMLEKGPENEYSVDDECL VKLLKGLCLKYLGRVQEAENFRSISAN EKKIKYDHYLIPNALLELALLMEQDRN EEAIKLESAAQNYKNYSMESRTHF*IQ AATLQAKSSIENSSRSMVSSVSL
1326	9377	A	2289	486	713	SKFYLFYLYFFVYTYVINIVYIKI*QQID LNFIYLFYLYFWRQSRFLSKL*CSGA NMTHLSLNLPGSRNTPAPALQAAGTTG M*HHTWLIFVVFVETEFHHVGLKFLSLD IHPPWPSKVLG*QGGWIV
1327	9378	A	229	28	359	KGKIPWLCGI*PQNEKLM*HKS LATVFC IYR/TN*KNKRIISINAEK AIDQIHTFMNF LKNF/MKTVRKLKMDGSILNIKEICERP TNM*DGELDDFPKIGDEAQRPP
1328	9379	A	2291	1	774	
1329	9380	C	2292	214	483	
1330	9381	A	2293	701	1033	
1331	9382	A	2294	440	1383	SSSWNRAFSRKKDKTWMHTPEALSKHFI PYNKFLGSTVEEQPKGTEVVRDAVRK LKFARHIKKSGGQKIPKVELQISYGSK NS*DPKTKREVQHNCQLHRISFCADDKT DKR/IFTICKDSESNKHL CYVFDSEKCA EEITLTIGQAFDLAYRKFLSFGKDVETR KQIAGLQKRIQDLETENMELKNKVQDLE NQLRITQVSAPPAGSMTKSPSTDIFDMI PFSPISHQSSMPTRNGTQPPVPSRSTEIK RDLFGAEPFDPFNCGAADFPPDIQSKLDE M/QAPEMEGFKMGLTLEGTVFCLDPLDS RC
1332	9383	A	2295	412	842	GKVSPPGL*GP*GEQGPLGPSGAATGLP HSLCPEAFASPRSVYR*DQAQLALWAV PL*EGPL/PDLVRGVVPGSPVKVPGDEV T/CHSCGRFPRALGQSKTLPNPLTTRR GVNSEDLPSPVYRAADRGNRFP GAVGG SCHR
1333	9384	A	2296	1036	1429	GRAWRTPCRAHQPRSHLRPSSCSTLQ RG*SPPPGRSSSPVQP*CA*ARGWGS GPG*HWTCLFLAWQSPQCTGPQICQYPR PLRSPRPAGPPGGTSGHSPPDARAPRRP PAPCGRECSSSSGRNAAPLG
1334	9385	A	2297	44	396	
1335	9386	A	2298	298	409	

1336	9387	A	2299	123	1221	KRQLFPLSWAMAASGSRMAOKTWELA NNMQEAQSIDEIYKYDKKQQQEILGGEA LD*GVRSHHYFKYCKJ\SALALL\KMVM HARS\GEGNLEV\MGLMLGK\VWDGETM IIMGKFFFCLVEGTETRVN\SLQAAAYEY MAAYIENANQV\GSPENAIGWYHSHPG\ YGCWLSG\IDVSTQML\NQQFQEPFVAV\ VIDPTRTISAG\KVNFGAFWAHPK\GGYN PPDEGP\SGVPGLFPLNKIEDLG\HCKQY YALEVSYFKSLLGSQNCLELLWN\KIWG GIRWSS\SLAGLLNADYPTGQVL*FVLKK LEQSRSPSLGRGEFPCWGLETHDRKSED KLAKA\TRSS\CKLPIEA\HGLMS\QVIKD KLFNQINIS
1337	9388	A	23	3	438	LFISLLSISEKIIENCWV*LSAARS*ALRKL AFF*ATRSFF*ARDILGRFHLFF\CNFFLG LLFIDWILSYSSMSFLIHLHPAGQQQAS TICCSIICQANLHTIFWQFVCIRCADYHIP LYTGISNLNDISVCHTNYHPVIGVW
1338	9389	A	230	1216	2017	HPRGAKYPETNPGFVTL SYVGPDPDRQL THSRPSRSENACGHRPGELNWLNCSCGL LVPRGKRVTETCNLVWKTASGPPPG DPLPSLSSPITHTQARPT\DTQAHCPAPCP PH*PLALNPQQNFCPEESAAQVGQGEED RTSRGWWHGSQPQVGAGK*PLSTGSKA QGARTGGGVPSRLR*EQALVRCRCRL CRLGSCVRSHSLKFIDEAGEAPSAAGLD GQGTGRAPGAPEARCPRAESGEGPGSG QAPAEQDPQPRAALRA
1339	9390	A	2300	2	433	
1340	9391	A	2301	1	2423	MAGALAGLAAGLQVPRVAPSPDSDDT DSEDPSSLRRSAGGLRSQVIHSGHFMVSS PHSDSLPRRRDQEGSVGPSDFGPRSIDPT LTRLFECLSLAYSGLVSPKWKNFKGLK LLCRDKIRLNNAIWRAWYIQQYVKRRKSP VCGFVTPLQGPEADAHKPEAVVLEGN YWKRRIEVVMREYHKWRIYYKKRVSSG GPGRPQSFPAAAGYRPPRKIPGKILTP ELAPLGPSIQSRADSATVWPQRLAASLP RGRLRKPSREDDLLAPKQAEGRWPPPEQ WCKQLFSSVVPVLLGDPEEPPGGRQLLD LNCFLSDISDTLFTMTQSGPSPLQLPPED AYVGNADMIQPDLTPLQPSLDDFMDISD FFTNSRLQPPMPSNFPPEPSPVVDLSF SSGTLGPEVPPASSAMTHLSGHSRLQAR NSCPGLDSSAFLSSDFLLPEDPKPRLPPP PVPPPLLHYPPAKQETVPEFPCTFLPPTP APTTPRPPPGPATLAPSRPLLVPKAERLSP PAPSGSERRLSGDLSSMPGPGTSLSVRVSP PQPILSRGRPDSNKALLGSFLGSPNSLLPE TENRRITHISAEQKRRFNIKLGFDTLHGL VSTLSAQPSLVSKATTLQKTAEYILMLA QGERAGLQEEAQQLR\DEIEEL\NAAINL CQQQLPATGVPI\THQRFDQMRDMFDV YVRTRLHNWKFWVSSSLKPMAGGLQ GLWQGSSLTWAQFSILIRPLFESFNGMVS TASVHTLRQTS\AWLDQYCSLPALRPTV L\NSLRQLGTS\TSIL\TDPGRIP*EQATRA VTEGTLGKPL
1341	9392	A	2302	1	535	
1342	9393	A	2303	155	276	
1343	9394	A	2304	1	477	

1344	9395	A	2305	221	2323	LGLQMHTTSGRIHQAMVTSLNEDNESVT VEWIENGDTKGKVEIDLESIFSLNPDVLP DGEIEPSPETPPPPASSAKVNKIVKNRRT VASIKNDPPSRDNRVVG/SARARPSQFP EQSSSAQQNGSV/SDISPVQAAKKEFGPP SRRRSNCVKEVDKLDQDKREMKRLQQQE LREIRAQDV DATHIPNYEIMCMIRGFTGS LDYRPLASADPIDEHRIYVCVRKRPLNK KETQMKDLDVITIPSKDVVMVHEPKQK VDLTRYLENQTRFDYAFDDSAFNEMV YRFTARPLVVTIFERGMATCLAYGQTGS GKTHTMGGDFSGKNQDCSKGIYALAAR DVFLMLKKPNYKKLELQVYATFFEIYSG KVFDLLNRKTKLRVLEDGKQQVQVVGL QEREVKCVEDVLA/KLIDIGNSCRTSGQTS ANAHSSRSHAVFQIILRRKGKLGKFSLI DLAGNERGADTSSADRQTRLEGAEINKS LLALKECIRALGRNKPHTPFRASKLTQV LRDSFIGENSRTCMIATISPG/MWASCEN TLNTRLRYANRVKELTVDPATAAGDVRPIM HHPPNQDDLETQWGVGSSPQRDDLKL LCEQNEEEVSPQLFTFHEAVSQMVEMEE QVVEDHRAVFQESIRWLEDEKALLGD*L EEVDYDVDSYATQLEAILEQKIDILTEL DKVKSFRVAAALQEEEQASKQINPKRPRA L
1345	9396	A	2306	264	451	VLPNLTVHASPTTIKIWAGKVTHAYNPS TLGGQRGRIA*AQEFKTSLSNIMGLRLSK KKKKK
1346	9397	B	2307	1	642	MLEEQLVRMLTREVMDLITVCCVSKKG ADHSSAPPADGDDEEMMATEVTPSAMA ELTDLGKCLMKHEVLSGTLADAVTWL FTSVLKGQLMHGQHDGCMASLVHLAFQ IYEALRPRYLEIRAVMEQIPEIQKDSLQF DCKLLNPSLQKVADKRRKDQFKRLIAGC IGKPLGEQFRKEVHIKNLPSLFKKTCPML ETEVLNDNDGGGLATIFEP*
1347	9398	A	2308	3	101	STHASESNFSICSILCFCLEAPISLMSLSA SLEDQPWAWALCGGGRAPSTT*PPLSL* HL
1348	9399	A	2309	360	483	SMCLTVSMLVTACPADPCVT*A*NRSSF EVPPPWTSDLRFF
1349	9400	A	231	5	399	DGVSLV/SPRLEYSGAISAHCKLRLPRFK *FSCLSIPSSWDYRHVPPPPANSVFLVKT GFHHVGQAGLELLTSGDLPTSA/FPKCW DYRCDHCAWAKD*KFKCVSVGRGGP GEAVHQNNSRLSYWWEDGGKGTG
1350	9401	A	2310	100	190	
1351	9402	A	2311	2	193	WRRRRRRFCPPQPSLIWSGMRSPKLT PR*NYLRQALRRNLSTLRRPFAQETAWY QWCFLGL
1352	9403	A	2312	103	237	
1353	9404	A	2313	3	1361	VETQEGKTTIEGRITATPKESPNPPNPSG QCPICRWNLKHKYNDDVLLLSQFIRPH GGMLPRKITGLCQEEHRKIEECVKMAHR AELQRELQRLSPLPATQVYYQITGLGFLK ELFRANPNSTGPLAKAQGGYLTRWAP GSVKPIYKKGPRWNRGEANRKAHFTV QWPAPSAIAHAKDDVSPLQPTQCLLDNI KKKVVLPSGRPGNTDSTCQESRSIYLS QALAVTFTHTLTATAEQAEPQLSPPPG LGEKPPADLVLQW/SEAPRAKQHYCTSP SHPAQRRVSSSDS/EHPAAASHPRRPPRP GTNGWSRRGSCRASWSRDCSGVRSRRV ALGMAMDQVNALCEQLVKAVTMMDP NSTQRYRLEALKFCEEKKEKCPICVPCGL RLAECTQVAIVRHFGLEHVVVKFRWN GMSRLEKVYFEEQWSWNLIAKGPFHF GRGEPY

1354	9405	A	2314	138	397	SHCPLSMHVGGRPSWWGGTGV*LWPR AC/RVGLLLPSTGAGGTLEALLSVSDTAS KVFELELARHCPSEGVNPTGHAHPVPSRG PFL
1355	9406	A	2315	16	546	QLNGRSIRHEVMSHRKFSAPRHGSLGFL PRKRSSRHRGKVKSFPKDDPSKPVHLTA FLGYKAGMTHIVREVDPRGSKVKNKEV VEAVTIVETPPMVVVGVGYVETPRGLR TFKTVFAEHISDE/CRLLPLRQKKAHLME IHVNGGTVAEKLDWARERLEQQVPVNP VFGQDEMIDVI
1356	9407	A	2316	2	451	PRAKAQKGSFVLWAQKSCPPKTTRALA KVACIGAWHPARVAFSVARVGQKGYH PRTEITKKIYKIGQGYLIK/DGKLIKNNNA STDYDLSDKSINPLSLLVQTKRRALEKID LKFIDTTSKFGHGRFQTMEEKKAFMGPL KKDRIAKEEGA
1357	9408	A	2317	1	625	CKFIRVMAHTRLRLPLRRKKAHLMEIQ VNEGTVAEKLDWARERLEQQVPVNPQVF GQDEMIDVIGVTGKGYKGVTSRWHTK KLPRKTHRGLRKVAC/KDGKLIKNNAST DYDLSDKSINPLGGFVHYGEVNDVFML KGCVVGTKKRVLTLRKSLLVQTKRRAL EKIDLKFIDTTSKFGHGRFQTMEEKKAF MGPLKKDRIAKEEGA
1358	9409	A	2318	1	1251	
1359	9410	A	2319	1	903	
1360	9411	A	232	481	525	AAGTYSL*IGKE*VKLSLSVDSMILYIDN LKTLPKRLTTDKFSKISEYNISIVF*CIND EKAKEIRKTIPFTIIRK*NTSDLTKKVKG LYKGNKYTLMEINKWKDIPCA*IRRI IKIVYPK*T*FKAISIKILLSFVTEIEKKIPK FI*NQKRIRIAKATLSCWNLFPMNSWHN RC
1361	9412	A	2320	1	1341	
1362	9413	A	2321	1	1131	
1363	9414	A	2322	10	1304	ESDGVTSRHRKFSAPRHGTLGFLPRKRSSR HRGKAKSFPTDDPPKPGHLTGFLAYTAG MTHIVREVDPRGSKANTKEAGEAATIVE TPPMVSVGVGVGYVETPRGLRTFKTVFAE HISDECKRRFYKNWHKSKKAFTKYCK K\WQDEDGKKQLEKDFSSMK\KYCQVI RVIAHTQ\MRLLPL\RQK\KAHLMEIQ\A NGGPCGPRSWDWAREKLE\QQVPVNPQV F\GQDEMID\VIGGDPGAKGYKRGSPVR WHTKKAAPARPHPRACAKVGLVLGAW\A HPGRVAFSV\ASRWGRKGLPFHRTEINQ GRIFKDWPRATLIK\GKLIK\QCLHLNY DLS*PRASNPLGGFVHYW*SDRNDFVM L\KG\CVVGT\K\RG\AH\PRKSLV\QTK\R RALEKIDLKFIDTTSKFGHGRFQTMEEK KAFMGVPLKKDRIAKEEGA
1364	9415	A	2323	138	737	TTTMSSKKA\KTKTKKRP\QRATSNVFA MFV\HSQIQGVQRGPFNMIDQNRDGFHS DK/EKVLHDM\AFSREESPLDAYLDAM MNEAPGPHQVSPWFLTMFW*ESLNRTD PLKIVIQKPPFA\CFD*KKATRHPPFREDYL /REELLTNPWGDRVYQIEEVG*TCTGEAP I*QKKGNFQITSEFHHGILTGRPPKHKDD LKELLA
1365	9416	A	2324	2	307	
1366	9417	A	2325	2	215	
1367	9418	A	2326	1	213	

1368	9419	A	2327	2	935	FRPRYEGRGRGCCGRVRLRRGLHVD GKLGKLTSSCGKPSNRMSLQWTA TFLYAEVFFVLLCIPFISPKRWQKIFSR LVGVSVPMGNTFF/VLVILVLLVIE CRAAKFREVMWDVDGKRVNLPGTIPGG HGEALSHMEAFSVAPGGNLLHWLGFSL LLASFLRLRLVTLISQQA\TLASNEAFK KQAEKC*VKAARKYMEENDQLKKGVAP FDEGKLNFEAELKLEEK\NRELKIANLQ KLKDELGGALSCKLEKG*KTSFWMRK QFMRGLTQ\ERYDRLLE\EQPKAAGLQV DGPMD\KKEE
1369	9420	A	2328	2	1217	QARGASLRPSLLRIPSEYAFTMQLRLFR LLAALLLVIVWTLFGPSGLGEELLTL AFLLPAPALPGPLALPRLLIPTQEACCGP GAPPFLILGGTAPENLNQRNAIRASRG LREARGLRVQTLFLLGEPNAQHPVWGS QGE*TGPSESAQGDILQAAQDSYRNL TLKTLGSLNWAEEKHCPMARYV\ARTDED GIANVPELVSELVLRGGRWGQWERSTEP QREAEQEGGVHLHSEEVPLLYLGRVHW RVNPSRTPGGRHRVSEEQWPHTWGPFPP YASGTGYVLSASAVQLILKVAS\RAPLLP LEDVFVGVSARRG\GLAPTQCVKLA\GA\ THYPLDRCCYGKFLLTSHKLDPWKMQE AWKLVGGS\DGKDCAPFAPWFGKSL GILRCRAIA\WLQS
1370	9421	A	2329	1	395	AINYNEKIYELRVMETK\DKAVSHIED MNVDFDAP/LGYKEPERQVQHEESTEGE ADHSGYAGE/LGFRAFSGSGNRLDGKKK GVEPSPSPIKPGDIKRGIPNYEFKLG\EAG GRFVAFSGEGQSLRKKGRKP
1371	9422	A	233	20	129	
1372	9423	A	2330	1	1494	
1373	9424	A	2331	2	1062	GRAVGGVSSLHCPERSGVCQVVSIMFSF NMFDHPIPRVFQNRSTQY\RCFSLSML AGPNDR/SSIGEKEGKIIMPP\SALDQILSR L*HYRIPMLFKLT\NRNSDRMTALLQCLE FVADEGICYFPTL/WMMQNLLLEEGGLV VQVKS\NLSSATLLPNFQPS\DFLADITN P\KAVFEN\ALRNFACT\TTGDVIAINNYE KILRNCVVMETQTPTRPVSHH*SVNH*T V\DFDCFLGLPKNPGKTKSHHEESEQKV KADPTVAYAWKSLGFPRFSRGSG\NR\LD GKKKGVEPSP\SPIK\GDIKRGIP\NYEFK LGKITF\VSRSRPLVKKVEEDEAGGRF VAFSGEGQSLRKKGRKP
1374	9425	A	2332	1	214	APARSALCSGAPRTSGQPWGTAPAPPS FHQRNTPCPWSAPPSPAAPWGSTKGQR LDGPCCAPFPRLSM*SKVPWWPA*TA PAPPSPFHQRNTPCPWSAPPSPAAPWGST KGQRLDGPCCAPFPRLSM
1375	9426	A	2333	1	1515	MAPLQQHIAVLPD\TTADQV\TTEDDGYT WTALQHVATAKEKRKSSQTMEESQDFP LHIPRPAQGTQRAVARPSPGPKAWTEAG PAKDAARSEKPGGRKAPGGRGQLTCRR SLSPVRQPPVSVPVSDSLRRRSPCSPADW REAGATSLDRIRPILVLMVDKKL\VVFG STGAQGGSVARILLEDGTFKVRV\TRNP RKKAAKELRLQGA\EVVQGDQDDQVIME LAL\WAYATFIGTNYWESCSQE\QEVTP A/GSLDRIRPILVLMVDKKLGLHYVVYS GL\GTSRS*RQGDWPPRTLTAKGRWRNI SGTLAFP*PVWG\FLANLENLLQLFFPR KTPEGKELLCGACPQVTFP\WMACPCLT WGPV\LSLFEDARKIRRP\PEHRG*ALAGT RPRSTLPCSPSTPARSCTMPR*LPEDYEK LGFP\GARDLGQHV\FLCPETPTRDI\PSLT LRLNPKALTLDQWLGT\AQRLQ\PAVTL

						PASRPLVGIRGHQRGKKAPTSEIKPICSPK KKKK
1376	9427	A	2334	3	1037	ILRSVARAQRGRSLRFHWSPGGHGGRS EAGAAGP/VEMRRCTAAPQGRVPG/PS KLGGIPDALPTVAAPRPVCQRCGQPLAL VVQVYCPLEGSPFHRLHVFACACPGCS TGGARSWKVFRSQCLQVPEREAQDAQK QGNSLAAEDWCEGADD/CGK*Y*GGAFT TVYLGFE*CCQC/HKT*TGLLGSKTS/C LQDAVLGAHPVPPGLPLFLPYVICVAD EDDYRDFVNLDHAHSLRDYQOREGIA MDQLLSQSLPNDGDEK/S*EDHN*KVGG SRPF*QIP*KRNWLLVREQILRVFPGVES HSF*PAPTSEVTELPQLPVWEAKRIFEF QLMPALGQHASRVLI
1377	9428	B	2337	240	387	NGKERGTGDVKLLKHKEKGAIKLLMRR DKTLKICANHYITPMELKPNAX*
1378	9429	A	2338	1	152	
1379	9430	A	2339	1	830	MRRPRRRLCWLRLVECGPLQSRSAVG NSEEQRKAYVFFSSLVLDTHEDHDTST ENTDESNDHPQFEPVSLPEQEKLEED EELFKMRAKLFRFASENDLPWKERG TGDVKLLKHKEKGAIKLLMRRDKDP *KICANPLPSRPLMGASPTAGRRSPW VLETPHADFRFNECPPPELPGPPRFLN A*RMPQKFQNSFEELQGRSEEEEEKE SRFQGNDSL/HRKKCAEKPSSLR*REE TKEDAEAEAINRLILLSFSSLSLS
1380	9431	A	234	16	370	
1381	9432	C	2340	392	631	MRTAESCRRLSWAALLGSHWRCCSHPC AAGQGPYPRAAVNGPRTPLAYLRFKEM FSSGLINVEFPQLYLSHFHSLLLR*
1382	9433	A	2341	3	121	
1383	9434	A	2342	1	2970	
1384	9435	A	2343	48	1493	DGQYRIWWLIEWHVDGGCGDTETWKD R\WNHVKK\FLERSGPFTHPDFEPSTESL QFLDTC\VLVIGAGG\LGCELLKNLAL S\GFRQIHVID\MDT\DVNS*IRQFLFRPK DIGRPKAEVAAEFLNDRVPNC\NVVPHF\ NK\IQDFMDTFY\RFH\IVCGTGTLSA RRWINGMLISL\LN\YERMVS*DPSSIVPLI D\GGTEGF\KENARVIL\PGMTACIECTLE LYPPQVNFPMCTIASMPRLPEHCIEYVG MLQWPKEQPFGEV\PLDGD\PEHIQWI FQKSLERASQYNIRGV\TYRLTQGVVKRII PAVASTNAVIAAVCAT*/EVFKIATSAYIP L*II\TWVFND\VDGLY\TYTFEGRK\KEN CPAC\SQLPQNISVFLHQAKLQEV\LGILT NSASLQNEILPAITATLGGEKIGTLYLQS VTSIEERTRPNL\SKTIGRIGLLDGPKTG RLLDVTT\QT\VL\QTSILLK\GKSPT
1385	9436	C	2344	166	312	

1386	9437	B	2345	355	487	MLGLRSGIPAPVRLQLAVVLGNSLGNFG TEGPGLKGRTMVTGDPX*
1387	9438	A	2346	754	1035	GKVRTVKIKYWMLARSSGSSL*SQHFGR LRQADHEVQEIKHHPG\KHSANP\SLKI QKVS*LVSQAWWWVPVPAIREVEAGE WCEPGRQSLQ
1388	9439	B	2347	80	432	MANGPRAXFCENFQAALALSRVGLHKN PEKEPYKSKYSARALLEEVKALLGPAP DEDERPEAEDGPGAGDHALGLPVAQRA VRLAVIEFHLGVNHIDTEELSAGEEHLVK CLRLRS*
1389	9440	A	2348	2	1060	HWLSTANVISDYD\KSSPTQDTAETV*D TPELYHQKGGEIARCWIKYCLTLMQNA QLSMQDNI*ELDLKQSELIALRKELDE EESIRKKAVQFGTGELCDAISAIEEKVSY LRPLDFEEARELFLGQHYVFEAKEFFQI DGYVTDHIEVVQDHSALFKVLAFFETDM ERRCKMHKRRIAMLEPLTVDLNPQYYL LVNRQIQFEIAHAYYDMMDLKVAIADRL RDPDSHIVKKINNLNKSALKYYQLFLDS LRDPNKVFPEHIGEDVLRPAMLAKFRVA RLYGKIITADPKKELENLATSLEHYKFIV DYCEKHPEAAQ\IEVELELSKEMVS\LP TKMERFRTKMALS
1390	9441	A	2349	11	2571	VKCRKAEGRESRLQTFEESQAVEAAM ANVPWAEVCEKFQAALALSRVELHKNP EKEPYKSKYSARANMEEVKALLGPAP DEDERPEAEDGPGAGDHALGLPAEVVE PEGPVAQANRLRLAVNEFHLGVNHIDTE ELSAGEEHLVKCLRLRLRYRLSHDCISLC IQAQNNLGIVWSEREEIETAQAYLESSEA LYNQYMKEVGSPLDPTERFLPEEEKLT VEQERSTRF\SKVYTHILYYLAQVYQHLE CFETAHY\CHSTLKRQLEHNAYHPIEW ATNAATLSQFYINKLCFMEARHCLSAAN VIFGQTGKISATEDTPESEGEVPELYHQR KGEIARCWKYLF*LLMQNAQLSMQDNI GELDLKQSELRALRKELDEEESIRKK AVQFGTGELCDAISAVEEKVSYLRPLG FEEARELFLG\QHYVF\ERAKEFFQIDGY VTDHIEVVQDHSALFKVLAFFETDMER RC\KMHKRGLAMLEPLTVDLNPQYYLL VNRQIQFEIAHAYYDMMDLKVAIADRL RDPDSHIVKKINNLNKSALKYYQLFLDS LRDPNKVFPEHIGEDVLRPAMLA\AKFR VARLYG\KIITADPKERAGKIWATSLAEH YKFIVDYC/EKRHPEAAQ\IEVELELSKE MPGRRSETPSLKERNKKDKIQTAKTTSA PPAQLALATPQPVRMCRQLTRVISLGSS KGKASFAGPDRPPYEDPHIVRLQLYHPQ RERSCVTSSRRSCAKSPWTLRWRPHGS SWEKSYELSDGQVITSSNKRHFCEALF QPSFLGMESCGIYKTTFSIVKCDVDIHK DLYANTVLSGSTMYPGIALQDAEGDHC PGSQHEEDQDHCSF
1391	9442	A	235	1	1125	
1392	9443	A	2350	1	421	GTVVMGLPKYFISLSTKFPLSFSLSADEL HIASLFLWPRSKPFGVIQRSCASQLNALP EVLKNPGDPDKMLRFAESPRNLPAGVL/ GDIWTDGKGSVSLQEQQVYHFPLIRPTPGS *ARASFLSCG*EEFRRHGLTFSSTRE

1393	9444	B	2351	211	1632	MSTELFSSTREEGSSSGSPFRSNQKML NLLLERDTSFTVCPDVPRTPVKGFLGDS ANLSILSGGTPKCCLDLNLSSGEITATQ LTTSADLDETHLDSSGLQEVHLAGMN HDQHLMKCSQAQLLCSTPNGLDRGHRK RDAMCSSSANKENDNGNLVDSEMKYL SPITTVPKLDKNPNLGEDQAEISDELME FSLKDQEAQVSRSGLYRSPSPENLNR RLKQVEKFKDNTIPDKVKKKYFSGQGK LRKGLCLKKTVSLCDITITQMLEEDSNQ GHLIGDFSKVCALPTVSGKHQDLKYVNP ETVAALLSGKFQGLIEKFYVIDCRYPY LGGHIQGALNLYSQEELFNFFLKKPIVPL DTQKRIIIIVHCFESSERGPRMCRCLREE DRSLNQYPALYPPELYILKGGYRDFPE YMELCEPQSYCPMHQDHKTELLRCRS QSKVQEGERQLREQIALLVKDMSP*
1394	9445	A	2352	200	1525	IMASAHLATSAFCTRSSSSGRSGCKRGS WDSEQALIRAWTTLPSLHAADGSFAGG RGIPSKRWSWRAGQQSSCLIMQTSNC GNSFQLVSEGASWRGLPHCSAELODSL NFSYHPSGLSLSVRPSSPGNSPKEPFSQ VLRPEPPDPEKLPVPPAPSKRHRCSLSV PVDLSRWQPVWRPAPSKLWTPIKHRGS GGGGGPQVPHQSPKRVSSLRFLTSSQC LFSMCPSSQTLQPSFLQPGPGPSSSRPCA ASPQSGSWESDAESLSPCPPQRRFSLSPS LGPQASRFLPSARSSPASSPELPLAT*G/L SATFPESRSQPCDLARKTGKRRHEED PRRLRPSLDFDKMNQKPYSGGLCLQETA REGSSISPPWFMACSPPLSASCSTGGSS QVLSESEKEEEGAVRWGRQALSKRTLC QRDFGDLNLNIEEN
1395	9446	A	2353	2	280	
1396	9447	A	2354	2	971	
1397	9448	A	2355	604	876	SLHHKDFTGMLLLQFAHHLGEIGFSLIS PKSRQPRFLPSVRQCGAAAA/RCYRL APRPVCSGKRRTAPGAGD*GGERARPPR ARVFCPR
1398	9449	A	2356	1	1042	DLFRRHFKSSSIQSAAAAAATRTARQH PPADSSVTMEDMNEYSNIEEFAEGSKIN ASKNQDDGKMFIGGLSWDTSKKDLTE YLSRFGEVVDCTIKTDPVTGRSRGFGFV LFKDAASVDKVLKEHKLKGKLDGKLPKR AKALKGKEPPKKVFGGLSPDTSEEQIK EYFGAFGERENIEFSMDTKTNERR/GFCFI TYTDEEPVKKLLESTYHQIGSGKCEIKV AQPKEVYRQQQQQKGGRGAAAGGRG GTRGRGRGQGNWNQGFNNYYDQGY GNYNSAYGGDQNYSGYGYDYTGYN YGNPMEYGRGYGQTYQWPQSTLMG KVASRGGGQSTQNNYPAHT
1399	9450	A	2357	586	1970	PQFTPLRFSLLILLFSQARVPSRVASLLA GRAAMEVPPRLSHVPPPLFSPATLASR SLSHWRPRPRQL/APLLPSLAPSSARQG ARRAQRHVTAQQPSRLAGGAAIKGRR RRPDLFRRHFKSSSIQSAAAAAATRTA RQHPPADSSVTMEDMNEYSNIEEFAEGS KINASKNQDDGKMFIGGLSWDTSKKD LTEYLSRFGEVVDCTIKTDPVTGRSRGF GFVLFKDAASVDKVLGT*KGHKLKGKLDGK IDPKRAKALKGKEPSPKRFLWSGLSPDTS VEEQIKEYFGAFGEIENIELPMDTKTNER RGFCFITYTDEEPVKKLLESRYHQIGSG KCEIKGCTTPKRYLGQQQPPKGCK/RG AAAGGRVGRGRGRS/QGQNWTFQFN YYDQGYGNYNSAYGGDQNYSGYGYD YTGYNYGNYGYGQGYADYSGQSTYG KASRGGGNHQNYPY

1400	9451	A	2358	592	608	WLRWATIIYKAGQPQLEAQNPYSFREGQ PFLRLDHLRTAGAEQNCAAAVWVRRL* RNMGFVLLTGA\ASF\WVAHLSHQCSQG PAKKVVPKWEYPYPCTATEPLNNGHHPST CIQAKPHPRNTVGKV*PSPSLFFPSLLGG VYHPAV*ASWPWAWPWICWTEFLYAY GLLHGENPSKRSRSPWGSIALLAFGWG TTVCSGFPSILVWVK\SGLGQVEPKC\CH LKKL
1401	9452	A	2359	857	1343	SFRISSEFGIITFKIVSFGIMAQTHAMGQFF ERNVSP*LTQGEIENLNRPIPVKL/ESITNN LL**KAPGLDGFTDD*SNIEINL*PRNISL KFFFLRKKSYQFSTIASKKIEAKGTHPN* L*ETSITLILKSDKDMTRKGKLQSLINIDA KILNKILANQMQ
1402	9453	A	236	426	2173	MRAQTHNRAVDIALGTAGAHLEDPGAQ QGQDRCSWQVCRSARRRRRREAAGGRR AARRAQHPCCREPSGNQSLSAHLHTGAT KGPASSLLHEHLWKPIARSARLPGNSSPL FSAPCSMGAGPSLLLAALLLLSGDGAV RCDTPANCTYLDLLGTWVVFQVGSQSGS RDVNCSSVMGPQEKVVVYLQKLDYAY DDLGNF\GHFTIYNQGFIVLNDYK\WF AFFKYKEEGSKVTTCNETMTGWVHD VLGRN\WVFFTGKKVGTASENVYVNTA HLKNSQEKYSNRLKYDHNFKAINAIQ KSWTATTYMEYETLTLGDMIRRSBGHS RKIPRPKPAPLTAIEIQQKILHLPTSWDWR NVHGINFVSPVRNQASCGSCYSFASMG MLEARIRILTNNSTPILSPQEVVSCSQY AQGCEGGFPYLIAGKYAQDFGLVEEACF PYTGTDSPCKMKEDCFRYSSEYHYVG GFYGGCNEALMKLELVHHGPMVAFAFEV YDDFLHYKKGIYHHTGLRDPFNPFELTN HAVLLVGYGTDASGMDYWIVKNSWG TGWGENGYFRIRRGTDCAIESIAVAATP IPKL
1403	9454	A	2360	84	326	DKAYQCSDCDK/ELHSVTLVSR*SVLSM HQSIHWKKKLCFLK/CHKAFSQ*SAII KQRIHVAQII*ICCIWESLQPEVVL
1404	9455	A	2361	635	1170	RLFKCILGLLTFPPDSSHQPLPGESPGSFE KSRCPCGWHPAQPHQSRWA\GPACSSY SGVLQG*EPQI*SLQHGRGGGGRTGGLE KETRTGSRISDTALGG/EAGPCPCGQLPH LPGPPAAHDAGPYIP/PKGPGGSGYLHP HGSAKLGSNQGAMKQAGRTVGSAGSQG SAEFHKAALWT
1405	9456	A	2365	2	333	EPVCATWKNRTPEPTRQCRPAEKQRASA TQHQEGRPQGWKPRRSSDPHPRGRFSS THDVSD*PK\TNCREAKGEEAGSLPTGT GIGGSKPSNRLRSTHTTTPGTVFNT
1406	9457	A	2366	208	491	KQSQVWCVLWSEGLLGLDPPNPSACG GDRLS/RTSAVPPVP*S*NSSAHGPGGRP GKPQGWG*TVTSGRSVAGKPGVPSNRR CFLPPHPWLLDN
1407	9458	A	2367	2	1010	PQPAQPCPGKELRTV\NGSQMLLVLL\VL SWLPHWGALASLAEASRA\SFPGPSELQ LRRTSKIPKSLRKR\YEDLLNPGCGPNQS WEDSNTDL\VPAPAVRI\LTPEVRLGSGG HLHLRISRAALPEGLPEASRLHRLFRLS PTASRSWDVTRPLRRQLSLARPHGPALH LRLS\PPSSQSD\QLLAESSARPOLEHL RPOAARGRRRARA\NGDHCFLPGGRCC RLHTVRASLED\LGWA\DWVLSPREVQ VT/LCAIGACPSQFPGRQKMHAQESKTN PAPALKAPNTVPKRP\CLVPRQLQIPWVL HSKRPTDGVCFQDL/SD*LVKPKTCHLH Y

1408	9459	A	2368	68	430	HVLT AHPPPHRLGPGPQGRSGMGREL GPTVCLSSLPRLAASFPRPP/VGLGPQQV QV VNGGCWPCRGYGEGTQAPQPPS*VG DPGEPNPQAPGAQSSTPKPAHIPPTQEA GRRWEGK WFF
1409	9460	A	2369	694	872	VCPGTGGE*GLWGLGGLPKETPLKPM DAFTGSGGLKRKFDDVDVGSSVSNSDDEI SSSDSADSCDSLNPPTASFTPTSILKRQK QLRRKNVRFQVTVYYFARRQGFTSVPS QGGSSLGMAQRHNSVRSYTLCEFAQEQ EVNHREILREHLKEEKLHAKKMKLTKN GTVESVEADGLTDDVSEDEDIDVENVEV DDYFFLQPSA\PKRRRALLRASGVHRIDA EEKQELRAIRLSREECGDCRLYCDPEA CACSQAGIKCQVS\DRMSFPCGCSRDCG GNMAGRIEFNPIRV RTHYLHAIMKLELES KRQ\GAAQQPQ*GALPDCQLQPDRTSGP *DPLTWHLIPAWLQAHASGSQYSRQSQP HSSRDRRMARSSCFSSASIRCTPEALSRA RLRLVGRWLQEEVHHLHIFHINIFI
1410	9461	A	237	3	463	GTRFLHSFLSSLKHGCGPSLLAALLLS PGDGA\VRCDTPAN\CTYLDLLGTWVFQ\ VGSS\GSQRDVNCSVMGP\QRKKK*VVY LQKLDTA\YDDLGN SGHF\TIY\NQGFEI VLNDYKWF AFFKDV TDFISHLFMQLGT VGIYDLPHLRNKAGY
1411	9462	A	2370	2	295	
1412	9463	A	2371	2	345	
1413	9464	A	2372	156	1437	GIETRRPWGRPYVAWLLVVM DALVEDD ICILNHEKAHKRDTVTPVSIL/PGDESVA\ SHFALVTPYEDIKKRLKDSRKRTSFLKK RIRFLEEKLI/GSDLKKKQVT*GRE\QV NK AYHAYREVCNDRDNLSKLDKMNKDN SESLKVLNEQLQSKEVELLQLRTEVETQ QVMRNLNP\PSIQTGEVKGVGAGDLAKIH GFGNQELELMRKECSDLKIELQKAKQTD PYQEDNLKSRDLQKLSISSDNMQHAYW\ ELKERKCLNLHLVTSSYKLELLRKT*KT\ STAIKK\ACAP\VGCVEDLGRDSTKLHL DGFLLATYARHPPLLPNGKALCHTTSSP LPGDVKVLSEKAILQSWTDNERSIPNDG Y/DAFREHSSYGQNSLEDNSWGIFQSPPK /SQSETAFGETKTKTLPLPNLPLHYLDQ HNQNC LYKN
1414	9465	A	2373	28	405	FLYDPAPPFLSIYP\KELKVES*IDTCTLFI AALF/LIGKRWK*PKYPLTDEWINK/VWY INTIEYY/SHLKRKDILTHYTTWVNREDLI LSEISQSQKINTVESTYMRYKYISNS*ISIG TSYKSHRV
1415	9466	A	2374	1414	1607	DRVSLWLPRLECSGAISAHCNLCFSGLS NSPTSASRVAGTTGACHHTLLI*FLFVFV VVVFETES/HLWLPRLECSGAISAHCNLC FSGLSNSPTSASRVAGTTGACHHTLLIFV FLVEMGFHHVGK
1416	9467	A	2375	558	985	KKDPRWALYSLYVYKFLHFSYSSAKNP DGCFFQKVLNGFTKFFCKEQYCKLLKLY FYRLFALLWILCLSGFLKFFFYSEIMELV LAAAGALLFC/GNFIIYDTHSLMHKLSPE EYVLAAISLYLDIINLFLHLLRFLEAVNK K
1417	9468	A	2376	664	937	VLLILFSNINIFL*SLPY SFFFIGEDNGSWV LAAAGVALLFCGDS SSM DTHSLDGINWS PEEYVLAAISLYLDIINLFLHLLRFLEAVN KK

1418	9469	A	2377	1	739	DPTPVTPRSSLKNDSTNGSSVASATVHIE WAFRLKVYSILSLQVLLTTVTSPVFLAYF ESVRTFVHESPALILLFALGSLGLNFALT LNRHKYPLNLYLLFGFTLLEALTVAVV VTFYDVYIILQAFILTTTVFFWFDCVYS YQSKKDFS\KFGAGLFAALLVG*LCLS\GF LKVFFFYSEIMEL\ALA\AAGAPFPVDFII YDTHS\LMHKL\SPEEYVLA AISLYLADII NLFL\HLLRFPGSQLNKK
1419	9470	A	2378	272	1668	AMSQGSVTFRDVAIDFSQEEWKWLQPA QRDVYRCVMLENYGHLVSLAGLSISKPA DV\VSLLSEQKEPW/VWGKREVKRDLFS VSESSGENQGLFHQKNVIYDGLHPSI*IM ERNSKV KAPVYSSFKGGWKCKDHTEML QENQGCIRKVTVSHQEALAQHMNI STVE RPYGCHCEGKTFGRFSLVLHQRTHTGE KPYACRACGKTFQSISNLVKHQMIHTG KKPHECKDCNKTF SYLSFLIEHQRTHTG EKP YECTECGKAFSRASNLTRHQRIHIGK KQYICRKC GKAFSSGSELIRHQITHTGEK PYECIECGKAFRRFSPLTRHQSIHTTKTP YECNECRKA FRCHSFLIKHQRIHAGEKL YECDECGKVFTWHASLIQHTKSHTGEKP YACAE*NKAFSRFSLILHQRTHTGEEP YVCKVCNKSFWSNLAKHQRTHTLDN PYEYENSFNYSFLTEHQ
1420	9471	A	2379	1322	1644	HLELFLGIRGIKMFVGTWNE*EEKAGLN GSRL*SQHFGKPRWVDH/LRSGVRDQSV GQHGTSSLQKNTKTSWAWWRAPVVP AT*EAEVGGWLEPRGGGCSEAVSGAF
1421	9472	A	238	12	362	DRVSLSPRLECN SAIPAH CNPCLP/GFK QFSCLSLPSSWG*RCLPPRLANFLY/SLVE IGFHHVGQAGLKLLTSCDPPTS A/FPKCW DYRHEPQ/WPDL*LT SF*GYRYEDSFDFL PKVPI
1422	9473	A	2380	319	724	EASLDLAPNISPPKTSCLPTGSCCSFTQT WMPQSKVFIHGPEQGPWDWALGTDLTA LPFKARNMPNLDTAGLPSIALRLTVNHR RSPGSQELSCLPDSCLSQ/PPQPC*GSLLP LEYKCTPKEALRK*KRLSFLFV
1423	9474	A	2381	38	704	SSEEEQSFSSWHQGDPAVTWKWLPK VPPRWRFSHFPLDSPWHFLQTAVTLP QISAAPPKPLLPTSPLAFFSSLLTDLPYL HPQGFSA GATANKAS\HNRTRALQSHS\ SPEGKEEP*TPYPELEYIPARKRGKNPHG KLVTGLGHSAFPCGYSLFHPSPKRG GTRDRVEGRLKARQNRVCSNN/AGEYE EARRFKGLSSQSGPVPPDVAGSGVQT
1424	9475	A	2382	107	449	
1425	9476	A	2383	68	422	
1426	9477	A	2384	54	859	LRRGRSRETNEEPPPTVQVQGPQREE KQKTKMAKFVIRPATAADCS DILRIKEL AKYEYMEEQVILTEKDLEDGFGEHPFY HCLVAEVPKEHWTPEGYSL*LRHVHG VYMDGRGGN*KILYTIK*MIMINEDTAL VGFAHVL IYPMNPWDWQSYLYLEDFSV MSGYKGLGIGSEILRNLSPGCQ*RCR/CS SK\HFLVA\EWQ*THPITFYKRRGASDLS Q*RRGWETCSKIGQGSTWLKIGQPEGVR ECCLLGWTTSHSYF
1427	9478	A	2387	112	861	NPGA AKMPAYHSSLMDPDTKLIGNM/A HLLPIRSQFKGPAPKRDRIPDIVDEAIFL PSGPNVFFKNYEIKNEADRTLIYITLYISE CLKKLQK\COFPKAQGEK\EMYT LGIPLN FPIP\GEPGF SHFNANLCPNPANK\QEDE\ VMRAIYLP TSLRPRTLGLKTL*EKFFGPS RMDKPQQSGWTWLC*RDSFMNKSLSG PWTIEREPGAAHRLPRPGGAFFQQDVT QSFCLYFSKVFIQRRRACL YLKNS

1428	9479	A	2389	1	395	AKAKMADVLDLHEAGGEDFAMDEDDG ESIHKLKEKAKKRKGRFG/SR*VWGKW GRVA**GRSYGFWSPHPPHNNGRKEEF SVISCMSLIEGSRARMREDYDSVEIDG DEPGPQRSVEGWILFVTGVHEEA
1429	9480	A	239	3	153	
1430	9481	A	2390	146	831	CLSGTDEISIEGEMADVLDLHEAGGEDF AMDEDDGESIHKLKEKAKKRKGRFGS EEGSRARML*DYDSVEQDGDVPGPQRS VEGWILFVTGSP*RPPEEDIHDKFARIM GEIKNISSSTFDRRTG/YILKGYTLNLIET YKEAQAAMEGLNG\QDLMGQPSVDWC FVRGPPK\GKRRGGRRRSR\SPDRRPSLT GPLLSRCSLQDSIWTMAALGQIGLGWEL CCVYI
1431	9482	A	2391	2	442	FYVILISVRELYLCHHLPFLCAGVYMTNS AMKVFLIWLIVKITVLEFKKLSWPGAV VWF*GLILYTHI*TL\NTHI*VQNVCYIIL QRNK*FHRFCINIKSWLGAEPHACNPSTL GG*HS*IT*AQKFETSLGNIVRPLYKKY KN
1432	9483	A	2392	2	425	RRANPPSISPSAQDSRVTPGEGPGSP/G* PSRPVS/GPA/PGSGGLRGSSAPATPLGE APSPSA\GPTPALQPCDPGAGP/GTARPG QTASAAPAPLPPRRGAGAPPQAGREGG PCGEEERPSPGREKVSC*KRQTGPGQRR ADK
1433	9484	A	2393	2	662	ACTAADLIAGTTISEAGPHMENQP/GEVA GPAGPPTPSWAPRIPLAPPWRAAAGRDP AT/GQEDSQ*PTPGCPSWPPWPTQLSPSA AGSPIHTPPIQGFHSQLLS*RSPGTEEP*E ANKLPPWTGHREPEPHGHPGHPCAAGS IGHWHL LLLCPLA\TLHGERQRHLHPGQR SGCGVQGRTPPGSAQIQDLPAAPSSILQN LSTQLCSAARPRSMPSRMRM
1434	9485	A	2394	115	187	
1435	9486	A	2395	93	584	KHSASAAQALPGTLGACTSGGGLRGSS APATPLGEAPSPSA\GPTPALQPCDPGAG PVLPGQVKLPQQ/PPAPLPPRRGAGAPPP PEIPSGSSFQGYWEGGAQTPGLLPAQRPL PPFPALGSGCSALEEG*ATGTRGHKGG CS*GLWGEPGRAGKHPPHLL
1436	9487	A	2396	46	438	LQKRVGDWLGEAPPWGVVWVSHRCRAR TARPGQTASAAPAPLPPRRGAGAPPLAR VPAPPCCAQRAPPSSSQGRNQ**AASGP WRPPR/PGREVGTCGEEERPASGREKDS C*ERQTGPGQRRVAVKMTQIR
1437	9488	A	2397	455	1241	ARELRAGGFYVVPHRGLEMPETALEAG VSGVGLQHLPH/HLGEAPSPSAWPDQTR CSRVIPVQGPVLPQGVKLPQQ/PPAPLPP RRGAGAPPLRDLARVPAPPCCAQRAPPS SSQPGRNQ**AASGPWRPPROAEKESNC GEEERPASGREKDS*ERQNGARSAAGR QAKESPQTSRPPDGEPACEVAGPAGPPTP SWAPRSPLAPPWRAAAAARDPATGRRTV SDPHRPAHHGLPGQHSYLLQLQDHLH SPIQGFHSQLLS
1438	9489	A	2398	2	328	PLFSDNGKKRGLALDGLKHEDTNLASS TIVKEGANKEVLGILVSYRVKVLVVS GGAPETDVPVDTNLIEFDNYATDDDIV FEDFARLRKGMKDDYDDQSTRP
1439	9490	A	2399	2	417	EIRAFCAKSLE*KSHKRNSVRLVIRKVQF APEKPGQPQSAETTRHFLMSDRSLHLEAS LDK/EVRQYADICLFSTAQYKCPVAQLE QDDQVSPSSTFCKVYITITPLSDNREKRG LALDGLKHEDTNLAFSTIGKEGGH

1440	9491	A	24	497	752	DGVLLLLPRLECNSAILAHRNLRP/GFK RFSCLTLLSPWDYRHLPPRLAIFVFLVY VGFHHVGYAGLELLTSR*SARPRPKIA
1441	9492	A	240	3	423	GSTHASARMAVMAPRTLLLLSGALAL TQTWAGSHSMRYFYTSGRPGRGEPFI AVGYVDDTQFVRFDSDA\ASQRMERAP WIEQEGPEYWDQETRNKVAQSQTDRVD LGTLRGYYNQSEDGSHTIQIMYGCDVGP DGR
1442	9493	A	2400	188	340	GGALLKDPLGGPNLPGGGKDKFFSFWG AF*NPPGDFWEGTFFLGGGILGP
1443	9494	A	2401	117	457	
1444	9495	A	2402	39	447	
1445	9496	A	2403	3	1359	FPGRFRGGAGILAAGEEAASEPRTERA AGARTMGEKPGTRVFKKSSPNCKLTVY LGKRDFVDHLDKVDV\VDGVVLVDPD/Y TMKDRKVFT/LSPCAFRY\GREDLDVL GLSFRKDLFIATYQ\AFPPVPNPPRPTL QDRLLRKL\GQHAHPFFFTIPQNLPCSVTL QPGPEDTGKACGVDFEIRAFCAKSLEEK GHKGTSVRLVIRKVQFAPEKPGQPSAE TTRHFLMSDRSLHLEASLADKELYHGE LNVKCSFTTNNSTK\TVQGRFKVSC*GQ\ YADIWPLSGTAQYKCPVAQLEQDDQVS PSSTFCVKVYTITPLSDNREKPCIALADG KLKHEDTNLV\SSSTIVKEGANKEVLGILV SYRVKVKLVVSRGGDVSVLPFVLMHP KPHDHISLPRPQ\SAAPETDVPVDTNLIEI DTNYATDDDIVFEDFARLRKGMKDDD YDDQLC
1446	9497	C	2406	933	1070	MKRKNILYYGTNKLYNTNNLLNNFINI LVSSLGLSERSFYRIL*
1447	9498	A	2407	138	1166	VVAMAQVLRGTVTDFPGFDERADAETL RKAMKGLGTDEESILTLLTSR\NAQRQ EISCS\AFKTLFGRDL\LD\LKSELT\GKF EK\LIVAL\MKPSRVL*MLIELKHALKGVA GTNEKVL\TEIIASRTP\EELR\AIKQVYEE EYGSS\ED*R\WLGDP\SGYYPAGCWL\V LLQANRDPDAG\IDEA\QVEQDAQALFQ AGEL\K\WGTDEEKFITIFGTRSWSSF*GK VFDKYM\TISRISKLR\ETIDRETS\GQFRSQ LLGCCGILFRRYTSPTLQETFIYAMKEA GTDDHTLIRVMVSRSEIDL\YIPGREFR KNFCHPPPYSMIKGRYIWGTIKKALLL CGEDD
1448	9499	A	2408	1	498	
1449	9500	C	2409	14	394	
1450	9501	B	241	1	540	MPV\NKHKRHD\TIAESLITPNVTTDSVKD CIKELGNRLFLWTQGCSSHVATVAPPTA PRGLRVRS\AVRPLPLGGWAAAMEGEP PVEERRRLQEELNEFVESGCR\TLEEVTAS LGWDLDSLDPGEEEAELHQIRCQESWE FASSPFCALKLDTSDWDSTNSRIIKGCHQ EVVTGN\SCGH*
1451	9502	A	2410	2	353	
1452	9503	A	2411	1	349	
1453	9504	A	2412	123	195	SWKPSFSAN*HSNRKPNTACSHS
1454	9505	A	2413	240	743	
1455	9506	A	2414	284	672	GGWEGLTDTSYRRAPAGIRPVLQRKEQT VIFAVLQPLLVIPR*TASGVDLQQT/GRP AEERPVRRTKKQNATTSKSTKGTP\TQK PHSNVIRFKDERDMDEAGNHHSQQTNT GTENQTTTCSHSYVGVEQ

1456	9507	A	2415	579	1383	VGSCAFYLAVSVFLAPRPFLHLLQLGAD E\ARSWDFLRSPEEFNTNMDIRPNHTIHI NNMNDKIKKEELKRSLYALFSQFGHV DIVALKTMKMRGQAFVIFKELGASSTNA LRQLQGFPFYG\KPMR\IQYAKTGS KMRG\TFADKEKKKEKKKARTVDQTAT TTNKKP\GQGT\PSAIP\QGNSTTQIPQ\VP DYP SKLNFYSLNKL\TQRETNEMMLSHA V*ISSTWPSSEVPSGYPRHDI\AF\VEFEN IDGQAGAA\RDALQGF
1457	9508	A	2416	1186	1451	DLLKVLHEKPKLARRSGSHL*PR/HFGRL RWKDCIKPGVQDHSQGYRESPLQNIKK KIIWAWWCMPIVPTTQAVKVGSLELK RLRLQ
1458	9509	A	2417	1	412	
1459	9510	A	2418	298	532	MGSWSLPGRTLWKEKVRFLKSKERTNP GSNFFSFPQSQHTREERSQECLSLPVLPS YL\ATRLSLPDSCPLKGRKAH*QRHSEI*L MGFEPGWPGKL*GWIELAFLGCLHLTL PLPCPTPLPKSTKSGCFSLSIALCFNKQF AVTK
1460	9511	A	2419	5	977	VRGGLAAGRGRGSAGAAPVVVAAMLG AWAVEGTAVALRLRLLLLPAPRGPG GVAGVAGAAGAGLPESVIWAVNAGGEA HVDVHGHFRKCIPL*GRVGRASDYGMK LPILRSNPEDQSCYQTE\RSN\EETFGYESP IQREGGLTCWSLKFAE\VYFAQSQQKF DVRLNGHV\VKDL\IFDRVGHSTAHEI IPMSIRKGLSVQGEV\STLYTGN\NME/F VKGYL*PIPKVCAL\YIMAGTVDDVPKL QPHPG*ERKKGEEEEEE\YDEGSIPKKNR PIKNGGQSGP\RH\NTP*ASDNSSLMFPIL V\AFGVFIPTLFLCLRL
1461	9512	B	242	232	387	MEGEPPPVEERRRLQEELNEFVESGCRT LEEVTASLGWDLDSLDPGEEAAE*
1462	9513	A	2420	1	453	RNSEKEVEKRKVALQEAKLKAKGLNPD GTPALSTLGGFSPASKPSSPREVKAEKS PISINAKTVKKEPEDRQQAASKSPYNGYN NRRSRSGTYSSRSRSRSHSESPRRHHN HSSPHLKAKHTRDDLQSSNRHGHKRRK SRSRSQSKSR
1463	9514	A	2421	19	434	QRGNYSFEIVAMACINLASKIEAPRRIR DVINVFHHLRQLRGKARTSYIYQSLGDVE WYIEMKLSSWQQTPSPLILDQNYINTKN QVIKAERRVLKELGFCVHVH\PHKIIVM YLQVLECERNQTLVQTAWVVHDGIT
1464	9515	A	2422	171	437	TSNFFYLSYNNRRSRSGTYSSRSRSRS HSESPRRHHNHGSPHLKAKHTRDDLKSS NRHGHIRKKSRSRSQSKSRDHSDAG*KH RLE

1465	9516	A	2423	21	1855	FPGRFRRLRWACVRLAKTMASGPHSTA TAAAAASSAAPSAGGSSSGTTTTTTTT GGILIGDRLYSEVSLTIDHSLIPEERLSPTP SMQDGLDLPSETDLRLGCELIQAAGILL RLPQVAMATGQVLFHRFFYSKSFVKHS FEIVAMACINLASKIEEAPRRIRDVINVF HHLRQLRGKRTPSPLILDQNYINTKHQVI KAERRVLKELGFCVHVKHPHKIIVMYLQ VLECERNQTLVQTAWNYMNDLSRTNVF VRFQPETIACACIYLAARALQIPLTRPH WFLFGTTEEIEIQEICIETRLRYTRKKPN YELALEKEVEKRRKVALQEAKLKAKGLNP DGTPALST/LGVGFSPASKPFIHQENVKA GRRKSPIFHLMWKDSKKEPGG*D/RQA FPKALYNGVKEKDS/RRRSRNSRSASRS RSRTRSRSRSHTPRRHYNRRS/RSQVYS SSPRSRSPSHSESPRRHHNHG/SPHLKAK HTRDDLKSSNRHGHKRRKSRSRSSQSKSR DHSDAAKKHR\HERGHHR\DRRERSRSF EEVP*KARHHGWVPSGTWARAQGADL SSSLWSPAIFLGFPGPIYQCDGMGLNPKT IKRKTGLGDFLETPRSS
1466	9517	A	2424	1	1566	
1467	9518	A	2425	328	889	GLRTPAAAYLYCGTVRTAGVAAASRYQG DNIYVKNLDDSIDDERLQKEFSFGTI*S AKGMMEGGHSK\GFGFR/ICFSSPEEASK AGTELNGRTVATKPSYVALAQKKEECQ AHLNQHMORMASVRAVPNHVMNPYK PAPPSGYLMTGIPETQNRPPRPGAVGHPC NPSTLGGQEGKNTGSGDRDHPG
1468	9519	A	2426	1	2262	
1469	9520	A	2427	365	2419	FSIPVDFCPSALAPRSPPPGSGPQPRHLS SSHGKVAACGPAGSRAEMNPSAPSYM ASLYVGDLHPDVTEAMLYEFKSPAGPIL SIRVCRDMITRRSLGYAYVNFQOPADAE RALDTMNFDVIKGPVRIMWSQRDP SLR KSGVGNIFIKNLDSIDNKALYDTFSAFG NILSCKVVCDENGSKGYGFVHFETQEAA ERAIEKMNGMMLNDRKVFGRFKSRKE REAELEGARAKEFTNVYIKNFGEDMDDE RLKDLFGKFGPALSVMKMTDESGKSKGF GFVSFERHEDAQKAVDEMNGKELNGKQ IYVGRAQKKVERQTELKRKFEQMKQDRI TRYQGVNLYVKNLDDGIDDERLRKEFSF FGTITSAKVMMEGGRSKGFGVCFSSPE EATKAVTEMNGRIVATKPLYVALAQRK EERQAHLTNQYMQRMASVRAVPNPVIN PYQPAPPSGYFMAAIPQD*DRAAAYYPPS QIAQLRPSRWTAQGARTHPFQNMPGA IRPAAPRPPFSTMRASSQVPRVMSTQR VANTSTQTMGPRPAAAAAATPAVRTV PQYKYAAGVRNPQQHLNAQPQVTMQQ PAVHVQGQEPLTASMLASAPPQEQQM LGERLFPLIQAMHPTLAGKITGMLEIDN SELLHMLSPESLSKVD EAVVLQAHQ AKEAAQKAVNSATGVPTV
1470	9521	A	2428	2	237	
1471	9522	A	2429	68	866	GSTGAVTAATATAATAAGASAPLGLPV YLPAPRSTAPAPSPAASALLFLVLTTPSRP ERLPSHQPPSATMATAPYNYSYIFKYIII GDMG\VGKSC\LLHQFTEKKFMG*FVPH TIGCWNLTGTRINESLVGQIKLQIWGLR QGQERLRAVYT/RAYYRGAAGALMVY DITRRSTYNHLSSWLTRCQGISPNPKYW **FSIGN*SQIWRPQRDVYEEAKQFAEE NGLLFLEASAKTGRRIVEDAFPLRACPR KIYQNIQDGKLG

1472	9523	A	243	1124	1394	ACDDWNRMDKSHLHPPPPPPRDPDYV GPSPGTRSPPTSGSRSPRNRSAPPAPAA PPQVQARPP*H\SPDPKRKRPNCRTRGSP PWFRS
1473	9524	A	2430	229	593	SLICFAVGVGDCAEFWVTRLAPRAEKRR LAPAVPPHHQDERGGTSTPHFHNLSHG WVTFPALLPQYDILPLNSFLHEIQEPSLGA SGLGPFSCNTYLISFSSTCHLAPVINLWA LPGASIM
1474	9525	A	2431	594	829	PCALVPLRPYATK*GMLPWLLGHLQS RAFAVALDHILF*VL/CHV*IPSILTKIFEN GYFVISVLLMRNILSSSALL
1475	9526	A	2432	1479	1734	LKVNISLGMVGHACNPSTLGSQE*ATVP LILYFLNKLAFTHCIGITLNSFLHKIQEPS LG\SRGLPLSCNYHATALQPGQSKALS
1476	9527	A	2433	30	508	
1477	9528	A	2434	338	853	EGRGFGRAGLPPLCIAALFQFKMNYMPG TANTLIEDNDKKHLVLLRDGRTHIGFLRS IDQFANLVLHQTVEIRIHVGQK/YTGDIPR GIFVVRIGENVVLLGÆIDLEKESDTPLO QVSH*RKFLQKQGNQ/QTKLVEAEKL KVQ\ALKDRGLSIPRADTFDKDLFFCPEA VGS
1478	9529	A	2435	357	893	TVFQIWANHPGQRPARQLCPVHLLGGQS HQEPRHVTSNPSRSPRASASLRRLTPLKPTG IGPGSQILED RDRFRAFT*WGDYFWGKGA PACLIQDGVKGQWAGPHSGVGGVGGWP APRACPPVFSPPQSQSSACGCQYYLSRPP KAYPQGWGRGGDPPGQNVRSVCDLRC CMWTLNCTCSF
1479	9530	A	2436	233	566	RLFLVRKRMISFSAPPLMLPFSFYFFVC PAARTARKRKPSPEPEGEVGPCKINGEA QPWLSTSTGLKIPMTPTSSFSVPPPTA* PHSNRTTPPEAAQNGQSPMAALIL
1480	9531	A	2437	219	702	ARKVRARAAGLESRTGSTGPRPCATRC WRCTSTATRGPSRASFKKEPALTA VART ARKRKPSPEPEGEVRAPLRSTEKAPGC PHSTGLKIPMTPTSSFSVPPPTASPHSN PGPHRLES GPRMGQFPIGSPDLSSRQFRG QSCSKDANQVHSTTRNSN
1481	9532	A	2438	173	1136	ALEGAGKSRGFWRAGLGQQAQDRARH AAGRCTSTATSGPFESKFKEPALTAGR LFGVFEGQRGQPLKAVCKNSKKGKSP LPEPRKVKSGPLKIQRGSPSRRL/SPHPQR GSRSP*LLHPLLCLRHPLPHLIPTGPHRL KRPRMASPPWQP*S**QTMQGASHASKD ANPG\SLPTTRKE*PTVGPSSVLL*TKERL GPKRGGGPREQATQEDWEPVHPASLPDF LFGQPVAPLCCTLCHERLEDTHFVQ\CP VPS\HKFCFP\CSSQGIKQQGS\SGEV\CP SG\DKCPCGLPMSPWA\FMQGEIATILA GDVKVKKERDS
1482	9533	A	2439	1	206	PTRPRTSYEKQGYLLPPVFSIVLEVLR AISQETEIKSVMGKEEVKLSL\FVCVYI YA*ENPVESTK
1483	9534	A	244	171	512	CTVGVRCVFPTEHKLPVESHVSRSE SVINKI*ANQIWEH/IKKIIHHEEVGFILGM QGWLNIRKAPTEIYHINR/SKDKNHMIILT /D*EKAFDKI*HYFILKTLDKLGI*GNF

1484	9535	A	2440	611	1203	ERLLRVCLALGSAGTADDVKLHPVSCA DTARSTPGTSAPSTSGTSAPFTPGTSAPST PGTSAPSTPGTSAPSTPGTSAPSKPGTSAP STPGTSAPSKPGTSASSTPGTSAPSKPGTS APSTPGTSAPSKPGTSAPSTPGTSAPSKPG TSAPSTPGTSAPSTPG/PQHPPHGRGPQHPP SRGPQHPPHGRGPQHPPSRGPQHPPHLP QHPPSRGPQHPPHQPQHPPSRGPQHPP/ PPGTSAPSKPGTSAPSTPGTSAPSKPGTSA PSTPGTSAPSKPGTSASSTPGTSAPSKPGT SAPSTPGTSAPSKPGTSAPSTPGTSAPSKP GTSAPSTPGTSAPSKPGTSAPSKPGTSAPS KPGTSAPSKPGTSAPADPGVL
1485	9536	A	2441	447	920	GWHWFLASQKSLKPLSRNPCVLVSCH MAQSWARTQEFCLPMCPPT/CAQSGTGT ESCFPNPN*VLGAGAPQPDQRCHKAGPF SSVPGFRLPSSRHGGPVLPGLTGPFGPPG RPPHKPSNEQRDAGQQLQLPPPACQKG LPQLPFCLKFYSLPELPH
1486	9537	A	2442	1	374	LRKDDTQIREAFHIFVQSWRALPSLPSL PLARALAEITNQPFGLITPSGILLNSQ MLDFSWPNRTANHSAPS/TVVRPAEGLC GTYLALGANGAARGLSGLTQVLLNVLN *NRNLSDSLARGR
1487	9538	A	2443	1	315	
1488	9539	A	2444	3	2027	NSRVDDFVARARMAAENEASQESALGA YSPVDYMSITSFPRPPEDEPAPAAPLRGR KDEDAFLGDPDTPDSFLKSARLQRLPS SSSEMGSDGSGPLRETRKDPFSAAAAEC SCRQDGLTVIVTACLTFATGVTVALVMQ IYFGDPQIFQQGAVVTDAACTSLGIEVL SKQGSSVDAAVAAALCLGIVAPHSSGLG GGGVMLVHDIRRNESHIDFRESAPGAL REETLQRSWETKPGLLVGVPGMVKGLH EAHQLYGRLPWSQVLAFAAAVAQDGFN VTHDLARALAEQLPPNMSEFRFETLFP GRPPLPGSLLHRPDLAEVLDTLGTSGPA AFYAGGNLTLEMVAEAQHAGGVITEED FSNYSALVEKPVCGVYRGHLVLSPPPH TGPALISALNILEGFNLTSLSVREQALHW VAETLKIALALASRLGDPVYDSTITESMD DMLSKVEAAYLRGHINDSQAAPAPLRP VYELDGAPAAAQVLFMGPDFFIVPMVS SLNQPFGLITPSGILLNSQMLDFSWPN RTANLSAPLENSVQPGKRPLSFLPTVV RPAEGLCGTYLALGANGAARGLSGLTQ VRFTPWLAFFSREPSCLDCRCLS*QSNL LQVDSECAETSWGHRDR*RKDSSQG CPWVHGSRRTNNFIIAVKDPRSPDAAGA TIL
1489	9540	A	2445	83	310	IFQCTKFTWDSQITPRLFHPAPPTWCRPL PVSG*RRVRGWITTRQSGGGRGAPLS SQAPPKGPVPFQWHLRAEG
1490	9541	A	2446	1	1833	
1491	9542	A	2447	3355	3951	
1492	9543	A	2448	699	975	
1493	9544	A	2449	3	132	GRFSSESPRA\GPPAPHRGHVQRCCVS PTGLLIWKELERPFC
1494	9545	A	245	1	293	FLRWSLALSPSLECSGAISAHRL/RLPGS TNLPA\TSRVASTVGMATAPGLNFCIFS REG*VKHVGPCCLELP\TSSDPLPLVSPK LRDYRPEPLCLA

1495	9546	A	2450	2	1734	TDLKRCTYYETCATYGLNVERVFQDVG IDSAVPCSAQKVVALRKKQQLAIGPASH CPNSPKHWAVSAASIPAVHNTQATNNG GKAFFSDYSSSVSTPSISQRELNIETIAAS STPTPIRKQ\SKRRSNIFTSRK GADLDREK KAAECKVDSIGSGRAIPKQ GILLKRS GK SLNKEWKKKYVTLCDNGLLTYHPSLHD YMQNIHGKEIDLRTTVKVP GKRLPRAT PATAPGTSPRANGLSVERSNTQLGGG NR GRGVV*ICGWVSLTGADVGT FEGFN GR RERELLGFSVQAQILASLQGCLQCQGG DFDLGNQNAALAVQAVRTVRGNSFCID CDAPNPDWASNLGALMCIECSGIHRHL GAHLSRVSLDLDWPELLAVMTAMG NALANSVWEGALGGYSKPGPDACREEK ERWIRAKYEQKLFLAPLPSSDVPLRQQL LRAVVEDDLRLVMLLAHGSKEEVNET YGDGDGRTALHLSSAMANVVFTQLL/W GESRASSLP*PRSS*PCSLKATSSFLPYNQ SLSSHVLPTVNMCFLLQYGV DVRSRDAR GLTPLAYARRAGSQECA
1496	9547	A	2451	329	3294	ESEELWGEQLAGGPPQQFALSNSAAIRA EIQRFEVHPNIYAIYDLIERIEDLALQNQI REHVISIEDSFVNSQEWTLRSVP ELKV GIVGNLSS\GKSA\LVHRYLTGGPIVQGG SPLKGGGLRSEIAADGHSYLLIRDEGGP GELQYAAWVDAMVF/VWSPCEDGITFS KTVYNYFLRLCSFRNASEVPMVLVGTQ DAISAA\NPRVIDDSRAR\KLSTDLKRCTY YETCATYGLQCGSVSFQ\DV
1497	9548	A	2452	493	955	TLCTYILISEVISLPGTAFIQRKGLGLRPS QNNAYSLSQTSPLIIFLRVQGF DLNLA LVLFSSGGTESRSIA\QLECSGMTSAHCN LRFLGSSYSPASAS*VAGTTGACHHAQLI FLVFLVEKG FHRVSRDGLHLL\NLVIRPP QPPKALGLQA
1498	9549	A	2453	158	720	PPPCRAKQHQT KTKRPIQRATSNVFAM FD\QSQIQEFKEAFNMIDPDQDGFADRE DLHDMLASLGKNPT*WSILDAMMMRA PGPPSNFTPWFPHHGFGEE\RLNGHQIPE DVHRKMPFACFE*KKPLGTIRADYLARE LLTTHGGIGFTDEEVDELYREAPY*PKRG NFNY\SEFTRILKHGAKDKDD
1499	9550	A	2454	2332	3329	VAGATGTHHHAWLILSFLRWSLTLSPRL ECSGTSAHCNFRLLGSSNSPASAS*VAR ITGAHHHTRLIFVFLVETRFHHGGQVGL KLLTSGDPPASASQSTGITGVSHHAWPY FKLFCRDGVLLCCPG*SQLGLKQ\SSCQ SFPK*LDYRCEPPRPTNL*RCLARDVPYL TTSPVRSRGGTRM/EKEVPEQRLAGSRM GQELTQQPSTETSWSLGRRRTKSPLF*IFF MFLRRSL\NSVTQAGVQ*HNLGSLQPPPH GFKRLSCLSLSSWDHRCPTPCLDNF*IF GRDG/GFTMLARQVSNS*PQ\GPPTLASQ SSGNTGLSHCNQPVAPIFAPR
1500	9551	A	2455	566	1037	GSTLSPSLPGFCPENS NKCKFNTLLTAES LKL PQDLSFDPSQKPTQVRHL/ESPPEG PPSRAPQKNSHEIR\NCLM\KCIFL*LGR MKAQTPTLF\SPGLGMSPAARPRSFPGG LGEVGAGTISVPSTLTPSTSETTL PQRY GMKLADADV GK KKKK
1501	9552	A	2456	349	679	ELGHWGNRVCLSEALGLAELHPCPGNE VGPQRQG*GLAVLILAHLLQGT LAQSIK GNHLVKVYDWQEDGSVLLTCDAAEQN/ ISTWFKDGKMIGFLTEDKKK WESGEVM PRDPRG\MYQC*RDHRNKS KTT SQVLFT GMCSGTCI*DLNAATISGFPLWLKTVSL FVLAFGVYFIA\GQGWSSASPRASDKQT LLP\NDPAPTQPLKDPKMTQYSHLQGN\

						QLRRN
1502	9553	A	2457	356	505	WTGGKKKAGWMPKKE/SVKLAQ*CMP VIPATQEAETGKLEPRSSRSAWET
1503	9554	A	2458	35	359	
1504	9555	B	2459	102	431	MIIYRDLISHDEMFSDIYKIREIADGLCLE VEGKMVSRTGNIDDSLIGGNASAEGPE GEGTESTVITGVDIVMNHHLQETSFTKE AYKKYIKDYMKSIKKGKLEEQRPDR*
1505	9556	A	246	466	743	LNHAVQEMIVKIELTQHMYINFHGKLEI NKGKKFGKLIHLWKLNNTVLSDQ*VKA EIQKGNKEIVLRWNKKEGMMYQNT/W/ DVAKPVLRAAW
1506	9557	A	2460	1	581	
1507	9558	A	2461	88	779	STWAVRGSRGWVGWGGGGGSHDEM FSDIYKIRGDRGRGLCLEGGRGRVWSRT E\GNIDDSLIGGKCPPLKGPEGRVPERH QLITGV\DIVMNHHLPGNKFSQKEASKK VHQRTMKSNKGL*RTDPEKSKTFL* QGAAEQIAHPLPNFQKLTFFIGENMN PRWAWVLLLDYRE\DGWCPP*YDFLLRD GLEMEKMLTNVGNFYGSITLSSITGLLPC HPTQPPGT
1508	9559	A	2462	12	159	WSHLLRMLQL*WS/HPPKNAAAYSSCRV **ERRGLIRTYGLDMCSQSFCQYAKDIGF IKLD
1509	9560	A	2463	46	371	FVILGKRRCRGALGCLKSQVEEATGGTRE HADWESLVPLQACTVAWESRDAGSSR LSAESCNFYDLQNRCLFSYSRVCSNRHG LIRKYGLNMCRCQCFRIQYAKYIGFI
1510	9561	A	2464	1	591	GLLQAEGPWRSSGEAAFREITMEIWLLA WAISPVALSESTDPEWQSRCEDRHFLF KFLVIGSAGTGKSCLLHQFIENKFKQDSN HTIGVEFGSRVVNVGGKTVKLQIWDTA GQERFRSVTRSYRGAAG/ALLVYDITSR ETYNLAAWLTDARTLASPNIVVILCGN KKDLDPEREVTFLEASRFAQENELMFLE T
1511	9562	A	2465	3	495	GRDRVMAETYDFLKFVIGSAGTGKSC LLHQFIENKFKQDSNHTIGVEFGSRVAN LGGEPPVKLQIWDTAGQQTGFAGKTYT SLAAWLT\ARTLASPNIVVILCGNKKDL DPEREVTFLEASRFAQENELMFLETSALT GENVEEAFKLCARTILNKIDSG
1512	9563	A	2466	1	2022	
1513	9564	A	2467	3	715	REQARPRRHIAALSGRDRVMAETYDFLF KFLVIGSAGTGKSCLLHQFIENKFKQDSN HTIGVEFGSRVVNVGGKTVKLQIWDTA\ GQERFRSVTRSYRGAAGALLVYDITSR ETYNLAAWLTDALTPVQPQKTGAFLC GNKK*PGPLEREVTFLE/APSRFAQENE LMFLET\SALTGENVKAFLKARTILNK IDSGELDRERMGSGIQYGIASLRKLRQP RSAQAVAPQPCGC

1514	9565	A	2468	3	953	VKMALVASVRVPARVLLRAGARLPGAA FGRTERAAGGGDGA\RP\FGSQVRVLEPD AGAGVAVMKFKNPPVNSLSLEFLTELVI SLEKLENDKSFRDVLTS\DRPGVFSAGL DLTECMGRSPAHYAVVLERPVQELWL RLYQSNLVLVSAINGA\CPAGG\CLVALT CDYRILADNPRYCKGIQIRPKVGICPFW G*KETLGKNLLGPGGGESA\LQVG\LLFP PAGR\PC\VG\IVDQVWSPEKQVQSIG\LS AIAQWMAIPKPM\AHK\LT\KAIMRKQGQP PAWSRKGYADVQNFV\SFISKDSIQKSLQ MYLERLKEEKG
1515	9566	C	2469	1	774	MKEVVYWSPKKVADWLENAMPEYCE PLEHFTGQDLINLTQEDFKKPLCRVSSD NGQRLLDMIETLKMEHHLEAHKNGHAN GHLNIGVDIPTDGSFSIKIPNGMPNGY RKEMIKIPPELERSQYPMEWGKTFLAF LYALSCFVLTVMISVVHERVPPKEVQP PLPDTFFDHFNRVQWAFSICEINGMILVG LWLQWLLLKYKSIISRRFFCIIGTLYLYR GITMYETTLTAPGMLCNCSPKLCGDCEA QLR*
1516	9567	A	247	243	935	IPVGELYPLLEDGIAAFIEWNP\THEALWE PQEQQETQGPKSKHGEAPVGASWPFR GFGEARPPPPVRPTLIHAWKSS*PICLFSL RHCHQALPGGTL\DKWPSSPRG\GCSPRT PGVTQ\QARRLS\PHRVAG*QSSSGACPW MSRSSAPFPFLTPSQSPRAA\L*VRKTKSP GTGEHRLWTGLGAGGV\SARPVVKHSAG PGGIHGGRAPGAEQRSGLWKAGCWGSV RASAPGP
1517	9568	A	2470	263	621	EVRLLSRPWPHEHEHGPWPLTIKWDFP DYRQWKIEG\TPFRKTIQKKGCKGLR D\PWGRNEA\WRYMGGF\AKISVSFS*CIL FKGFKWGDLLAFVVAVRELEYLPGES* IKDKKHH
1518	9569	A	2471	1	225	
1519	9570	A	2472	99	493	TASPAPPQAFRRSSSLKIRE\SIIRGSEKL VSRLRGEAA\RRTSRVSVDQVGKEP*HQ QNRQPTPPPPPFCSRTF\HGSHLPCDTHRS NPVLSRLVEGGHSWIHSFPPCCPLCRM KRDMSLNTLNVDAPRAG
1520	9571	A	2473	70	299	AVGSVHAGVQQWVSGGVGPP\GSAGPP GRKPRL*RGPS\EDPARRNAPA\IERLSRRR GRCSARGLRGRDQEEGQPGRT
1521	9572	C	2474	129	602	MFERIVXADEHVIDQGGDGDNFYVIERG TYDILVT\KDNTQTRSVGQYDNRGSFGELA LMYNTPRAATIVATSE\GSLWGLDRVTFR RIIVKNN\AKKRKMFE\SFIESVPLLKALKD GQRFNPHLHFAFEGPFIRPLVKITPTQFLY LWFKTACL\SNLSA*
1522	9573	A	2475	38	1523	RRVARPGNAEPAKERRDVSRGRARRDL AGAERKAGV\SERGDSGRRRPNPSIPSA AGMSHIQIPGLTELLQGYTVEVLRQQPP DLVEFAVEYFTRLREARAPASVLPAAATP RQSLGHPPPEPGPDRVADAKGDSESEED EDLEVVPVSRFNRRVSVCAETYNPDEEE EDTDPRVIHPKTDEQR\CRLOEACKDILLF KNLDQEQLSQVLDAMFERIVKADEHVI* PKGD\DG\RPFYCHRTGGTYDILVTLDN QTRSVGQYDNR\GSFWRLALMYNTPRA ATIVATSE\GSLWGLDRVTFRRIIVKNN KKRKMFE\SFIESVPLLKSLEVSE\RMKIVD VIGEKIIR\DGER*ITQGEK\ADSFYIIESGE VSILIRSRTKSNKDGGNQEVEIARCHKGQ YFGELALVTNKPRAASAYAVGDVKCLV MDVQAFERLLGPCMDIMKR\NISHYEEQL VKMFGSSVDLGNLRAVGVP\HPTSLLSVT PKPSGQPQNTYRKQT

1523	9574	A	2476	1	912	
1524	9575	A	2477	3	806	EEFAAVSERIHEQVRDRQLENEYVCRVE GEFPTTEVTCKEPILVVSYKVGVCVRDP RGKPCETVFORLSYNGQSSVVRCPPLTG RTHQIRVHLQFLGHPILNDPIYNSVAWG\ PSRGRGGYIPKTNEELLFVPG*AEHQAK QSLDVLDLCEGDLSPGT/LTDSTAPSEL GKDDLAEELATAVAQKMGGK*AEAAPQE LDTIALASVEKAVETDVMNQETDPTLCK MPAGATGSLAPPCDVPTCPNAIKGQAL STFHPMPAWAQDDWQKD
1525	9576	A	2478	184	793	DFLLLVLTGLYIYRKSKIHKVLE*IEFINV TSYKVNIOKDIALRTSQKH*KTN*KYKA KYLEIN*TNQDFYNENYKTLRKYKDN LGKWTIIPYSSTGKLDIVKMSIILRFYKT NAITGIVPK/HSFVKINPEIPKLI/YGNMGN REGKTILKNKKVGRSLPDFQKYKAT*I KIVWY*CKKRQMNQEAETSAKRKPWS L
1526	9577	A	2479	69	403	SALRRGAGAKAGRPLAPATALGGQTQP EKGPAAP*NGWTGLGAGPPAWRARPRPS PPEFSQFSLSYNMS*AKVGG*EHGSTAPG EGG/P*RKGGGPPPNPQRQGGSPGTSP
1527	9578	A	248	56	247	QEONPQISILTLNRNG/LNATLKRYRLN QIK/SFCKKDQTMCCQLQETYLTKDTHR PKVKG*KNI
1528	9579	A	2480	502	834	RRLLPTGILAGRVSAAVKPTHRTQNSLLQ QRITPRPWRGGSHL*SQHFGKPRQADHL SPGV/PRVSPG*RGETPSLQRIQTLAQVLC CAPVVPATREVEVGGSPEPGRSRLQ
1529	9580	A	2482	1	220	VNMRDRFGQIMENLRRRQCELAGVETC KSLESWRIESLEFLDEM*/LLEQLM/RHYCL CWATKGGNELGLKEITY
1530	9581	A	2483	98	394	
1531	9582	A	2484	1	381	
1532	9583	A	2485	1	645	
1533	9584	A	2486	10	1228	AAPAEPRALPSSVAFSLWLAPSPAARR PRFHVPGGAQLPGTVHARWPARQRRESSI VTSCCSTSSCDADDEGVRGTCEASLCKR FAVSIGYWHDPYIQLVRLSKQRKAP EINRGYFARVHGCSVQLIKAFRLKTEC HCSNCSNLGGQGMGSPFWRLKDEDLS SQVNIFEVDPMIVTRKLHSIKWLAFPLS SPILELHSEDTLQMASDCICDGHILDSKR YAVIGADLRDLSELEEKKKCNMNTQLA PTP*IAECVLVYMTPEQSANLLKWAAN SFERAMFIYYQVNMGDLFGQIMENLR GRPVC/DLAGVETCKSLESQKERLLSNG WENKHPVVRT*LEFVPPGLPSKLG*SRIE SLENLDENWELLEQLMR/HYCL/CWATQ RRK*SLGLKEITY
1534	9585	A	2487	3	247	
1535	9586	A	2488	1	922	MQLKPMENPEVSARCTATRRARGRGR GSRVADRFGAFFFAFAFQMLNKVLSR LGVAGQWRFVDVLGLEESLGSVPAPA CALLLLFPLTAQHENFRKKQIEELKGQE VSPKVYFMKQTIGNSLGPLGNSTQGPNI KDQLGFEDGSVLKQFLSETKKNVPLKD RAKCFEKNEAIQAAP*MPVGTGKAQCR VDDRVNHFHFG*PTVDGPPSMNLDGP NAFSPWTHGPQLQEDTLK/DASKVCRR NSPEREQRRSPASSARGFSCKGSLNALW GGICWIFPSFPFKHGKYITPPCQSKMLQY L
1536	9587	A	2489	18	255	NWISFLPWHYSHFEVYERYDSVL*IPFSL LQ*PIENVYPKI*KKKSTSSNKIALVLSGT YKNSLEPRSGASSVLWFTPNL

1537	9588	A	249	1	372	RALAVSMLGAWPGPWALDWGPYSMTA RHGTFSL*APYPDPCPAGPPPAPRQQGK APSGCGGRSICSGRLPSVWPLMPAWQR PS*/GGGLHSAPNARKAQAYPGCLPFYLP \LPGLLSGWSAGFLC
1538	9589	A	2490	2	568	ERGRKMAVESRVTQEEIKKEPEKPIDRE KTCPLVLRVFTTNNGRAHHEMDEFSGN VPSTELQIFPL/WMDATLKELTSLVKRV YPEARKKGTHFNFAIVFTDVKRPGYR*F SFLQS*GGLASTMSGKRGTDDSHEPLQ SQKFQIGDYLDIANYPLPNRGTHPPSIG RMRPILNFYLLFVEFIFPSVM
1539	9590	A	2491	3	506	FFFFFLKTSTLSFITTHCLQIQREGPGAEG AAVAGGAPRGAEGPAATSTETGGSAGD/ AAPSP/RLPSK*QEGPGPFWGDPNARQ WPGGRGRREAWRGLRAGSGESHQVGP WPASRSTGGSGQVGGAGERLGEDSGL GQVKATRWGLSPPPAALEEAVANTGPSP PC
1540	9591	A	2492	3	639	APEFPGRHLLLTQLCSLASLIQTRMVHLT PEEKSAVTALWGKVNVDVGGKALGR LLVVLVPWDPKRSFEVLWGNLSQLECC *WGKPLKVKGSMKEKVLGCPLSDGLA HLGQPSKGTFAHTEVSLHCDKLRHRSGL KNFRLLGNVGLCLLAHHF/GKRISTPP VQAA*SRKLVGLVLAKCPWPHKYHLKL AFLAVQFLFKGLWSLKTNY
1541	9592	C	2493	217	396	MSEETAKEVMRAYLQQLRQETGLRLCE KVFDPPQNDKPSKWWTCTFVKRQFMNKS SLXPGQ*
1542	9593	A	2494	79	778	NPGAAKMPAYHSSLMDDTKLIGNM/A HLLPIRSQFKGPAPKRDRIPDIVDEAIFL PSGPNVFFKNYEIKNEADRTLNIYITLYIS VECLKKLQK/CQFPKAQGGGKEMFYAGE STNFSHFLGEPGFPL*PPFYAQTWPTTQ EDEVMRALFTTQLR/QETGLRLCGESFS DPQNG*TPAKWWTCTFVKRQFMNKS SLSGPGTVEGSPGQPTVFPEALGQHFSKM LHNLFAFIS
1543	9594	A	2495	1	471	
1544	9595	A	2496	1	1524	
1545	9596	A	2497	2	719	RPQRAGPVRRAGVMALLDLAEGMAVF GFVLFLVLWLMHFMAIYTRLHLNKKAT DKQPYSLPGVSLKPLKGVDPNLINNL ETFFELDYPKPLFFSVAPMKRIEKTQM** P*CSTY*YEVLLCVQDHDPAIDVCKKL LGKYPNVDAFLFIGGKKVGINPKINLM PGYEVAKYDLIWICDSGIRGTMEMPMSL EQSYDPNVRDPIYRNNGDADGQHLVLH DFYQQGSGPKCSLINA
1546	9597	A	2498	200	370	
1547	9598	A	2499	295	1546	CVLLDLAEGNVPVFGFVLFLVLWLM HFMAIYTRLHLNKRATDRQPYSLPGV SLKPLKGVDPNLINNL/ETFFELDYP/K KFNLHTMLFD*YEVLLCVQDHDPAIDV CKKLLGKYPNVDAFLFIGGKKVGINP KINNLMPGYEVAKYDPIWICDSGIR/IFP DTLTDVMVNQMTEKVGLVHGLPYVADR QGFAATLEQVYFGTSHPRYISANVTGF KCVTGMSCLMRK/DVLDQAGDFAFA/Q YIAKDYFMAKAIADRGWRFAMSTQVA MQNSGYSISQFKSRMIRWTKLRINMLP ATHICEPISRMPLPSLINWDGQAHVFR WDIMVFFYG/CHCLAWFIFYIPTPGVS QGGTLCFSKLGLMQSPWFIREMTIYIFL SALWDPTISWRTGRYRLRCGGTAEEILD V

1548	9599	B	25	922	2057	XTQTDSPWFMISEKQRNFNAESTIGSHIH GPRIVAGLHAPTLMEDEDALQETVRAS IRKEQRNSRHDGGDGIRKAHAAIPRESRS MKRSPRKEVKKRWNRPKMSLAQKKD RVAQKKASFLRAQERAES*
1549	9600	A	250	13	475	NGSSLRSPRLR*SRTPQSS*VAGITGAHH HARLIFFFFFFFFETESCRVSQAGVQWRDL GSLQALLPGFTPFSCSLTQSSWDYRHPPP RPANFLYF**RRGFTVLARMVLIS*FRDP PASASQSAGIIGVSHRARPRGRLLAPSYI CRNRGLEG
1550	9601	A	2500	3	331	GAILAHCNLRP/GFKQFSCSLPRHS*TS Q*PLTSRLPMVRHG*VKKSEGILCSLPPC TT*VPTSSAPMPWPSRQWERSRTMTVIS SSQLMALGPSCPQRDGSPTSSP
1551	9602	A	2501	15	310	DRVSL/LSPRLECSGAILAHCNLRP/GFK QFSCSLSPSSWDYRRAPPHLANFLYF** RRFFRH/GCPGWSLLSSGN/PATLAF*KC* NYGHEPPHPARKIHI
1552	9603	A	2502	3	467	PAPQSLLSARHVSALPTPAS/R/RCISGLPP MTPKTMPPRA/VGSPLCVPARRRSSEPRK NSAM/RALLVDIKLEPLAVTPDAA/SQPLI DLPLIDFCDTPEAHVAVGSESRLIDLMT NTPDMNKNVAKPSPVVGQLIDLSSPLIQL SPEADKENVDSPLLK
1553	9604	A	2503	2	273	FASIPANSSRPLSNISKSGRMGHAMLRPA LPAGPVGASSWQAKR/SESSQLNKTRSIR RRHSCLNSKTKVMPTPTNQFKIPKFSIGD SPKA
1554	9605	A	2504	1	472	VGRVTVHSTPVRSSGPGQSLLSARRV SALPTASRRCSGLPPMTPKTMPPRAVGS PLCVPARRRSSEPRKNSAMRTEPTRESN RKTDSTLVDVSPDRGSPSRVPQALNFSF EESDSTFSKSTPLIDFCDTPEAHVAVGSE SKPLIDLMTNTPDMN
1555	9606	A	2505	759	1664	TAGCGLGCASGPQAGHPATAGPQTLLPS AGGRAWSSCPPRALHRWPAGWEGCG YRRWS/RAASYSPWKNKVLLIKPFSIRYK AQ\NSYDKPTYQSPSRRLSAA*IPTHP* SLLSSRGCECERRCAPTMROPGAADTEPMC YHSWPHHSLFLPSSCLWGAGVEDKEL VPLWRVFLPGRRSWFPSSQKSRLSHSC LGGCQVSRRGKFEQQLSSVPDSPGKNK HHGKISGPTCLSGGPGESVPIVHRLSESS HWQMSLLQTRAAAPALSAAGFLKSPPLS SQPGPALCPASRSFQCQSAQQQ
1556	9607	A	2506	1	377	ASRRCSGLPPMTPKRCRGRGSPLCVPA RRSSEPRKNSAMRTEPTRESNRKTD SRL VDVSPDRGSPSRVPQALNFSPEESDSTF SKSTATEVAREEAKPGGDAAPSEVGGLL EPRSSGPAWEMM

1557	9608	A	2507	3	2112	ILLADEKFDLSDLSSSSANEDDEVFFG PFGHKERCIAASLELNNPVPEQPPLPTSES PFAWSPLAGEKFVEVYKEAHLALHIES SSRNQAAQAAKPEDPRSQGVRFIQESK LKINLFEKEKEMKKSPTSLSKRETYLSDS PLLGPV/VGESCTAHAASQAATQRKPGT KLLLPRAAASVRGRSIPGAAEKRTARMPK GRRKRK*QVLF*G*GCCGG*GEG*GCGE AGSSRIA/PKKEIPASPSRTKIPAEKESHR DVLDPKPAPGAVNVPAAGSHLGQGKRA IPVPNKVNNEIFADSVFSHFAPLGLKKT LKAPGSTNLARKSSSGPVWSGASSACT SPA VGKGLCCTPVCPARPARPLHSCCK MTPSRPWLWQCREGLECP*GSGGTWV RHSCDRRAGRSGSQSPRPHFGSSEVLG* TWRPGERTGDSPTSSTPKLSRAQRQSC TSVGSSRH*CCVCRTVHSTPVRSSGP APQSLLSAWRVSALPTPASRRCSGLPPM TPKTMPRAVGSPLCVPARRRSSEPRKNS AMRTEPTRESNRKTD SRLVDVSPDRGSP PSRVPQALNFSPEESDSTFSKSTATEVAR EEAKPGGDAAPSEALLVDIKLEPLAVTP DAASQPLIDLPLIDFCDTPEAHVAVGSES RPLIDLMTNTPDMNKNVAKPSPVVQQLI DLSSPLIQLSPEADKENVDSPLLK
1558	9609	A	2508	68	2331	LLTALSMEEGGRDEPSASRAGDVNMD DPKKEDILILADENISTFDLSLSSSANED DEVFF*PFGHKERCIAASLELNNPVPEQP PLPTSESPFAWSPLAGEKFVEVYKEAHL LALHISSRNQAAQAAKPEDPRSQGV RFIQESKF\KINLFEKEKEMKKSPTSLSK ETYYLSDSPLLGPVGVPRLLASSPALPS SGAQLRLTRAPGPPHSAHALPRESCTAH AASQAATQRKPGTKLLLPRAAASVRGRGI PGAAEKPKKEIPASPSRTKIPAEKESHRD VLPDKPAPGAVNVPAAGSHLGQGKRAIP VP\NKLGLKKTLLKAPGSYSNLQRKSSS GAIVWSGASSACTPQPVAKAKSSEFASIP AN*LPGLCPNISKSGRMGP\AMLRLPALP AGPVG\ASSWQAKRVDVSELAAEQLTAP P\SASPTQPQTPEGGG\QWLNSSCAWSES SQLNKTRSRRRDSCLNSKTKVMPPTN QFKIPKFSIGDS\PDSTPKLSRAQRQSC TSVGRVTVHSTPVRSSGPAPQSLLSARR VSALPTPASRRCSGLPPMTPKTMPRAVG SPL\CVPARRRSSEPRKNSAMRTEPTRES SRKTD SRLVDVSPDRGSPPSRVPQALNF SPEESDSTFSKSTATEVAR EEA KPGGDA APSEALLVDIKLEPL\AVTSDAASQPLIDL PLIDFCDTPEAHVAVGSESRPLIDLMTNT PDMNKNVAKP\SPVVQQLIDLSSPLIQLS PEADKENVDSPLLK
1559	9610	A	2509	1	353	DVQLEGAKIGSTEITFTPEIKGGIHTVAY TKTAGSVCLLMQVSMPSVLF AASPSQLH LKG GTFKVAQDMATAAVRCIKKEIRD YVNIQPVQEPKDQAFGNGNGIII AETSTG CLF
1560	9611	A	251	986	1401	LEQGCNLF LHKHS*LGEVFFVCFRRSFT LVAQAGVKWGDLSL/HKLPSSLSLPSS WDYRHPLPRLA/NFFVFLVKMGFTVLA RMVSIS*PRDPPTSASQSAGIIGVSPRAGP VAGILMFCRWNISNPKPGAVIEK KKKK

1561	9612	A	2510	29	1262	TKVSELLCGSQLFFLPLWRLCRCGLG PRVSPMAGPRVEVDGSIMEGGGQILRVS TALSCLLGLPLRVQKIRAGRSTPGLSMT *RPQHLSGLEMIRDLCDGQLEGAEIGSTE ITFTPEKIKGGIHTADTKTAGSVCLLMQV SMPCVLFASPSELHLKGGTNAEMAPQI DYTMVVFKEPVEKFGFIFNCIDIKTRGYYP KGGGEVIVRMSPVKQLNPINLTERGCVT KIYGRAFVAGVLPFKVAKDMAAAAVR CIRKEIRDLYVNIQPVQEPKDAQAFNGN GIIIAETSTVGLFAGSSLGKPGFNSDKVV IEAAEWLLANLRHGGTVDEYPARPSLI VFHGH*PNGVSRIKTGPVTLHTQT/API HFAEQIAKG*ILL*RNPEDEEDAIAKDTYI IECQGIGMTNPNL
1562	9613	A	2512	900	1189	SQHFGRRRADHLSSGVQDQPGQRGKTP SLLKIQKLAGRGSSLL*SQLPRLRQREN RLNPGGGGCSELRSDCTPAWATEGNS VSKKNK*KKKKK
1563	9614	A	2513	1710	2221	SPLLDVYFKTRLLSRGRREPACTLRNTI GTLLSHCPGLIQGPHPGPSGKTCGPFKPR GPGHSCPPDDKKQVPTVPLLPAPLRWA QAGLPYAGISGSPGRPLGAQAG*GSGV IGESNYFVHCMHPRGPGSPHL/PGG*GLQ PKPPRPLPSSSGSTTGLGDRKPCSYSQ
1564	9615	A	2514	205	295	GCNGNKDSCGPIAPSSGDILLTVKRSRP R*NFSP\CA\PCSSSSKRAMCSRVCSPWGL *CGPIAPSSGDILLTVKRSRPR
1565	9616	A	2515	1	927	
1566	9617	A	2516	932	1688	KGFKNPTFPCEIPAGQTHKPHHHNKHSS PPVQKLKLQMKKNEVYETFSYPESYS PTLPVSRRENNSP\SNLPRPSFCMEEYQR AELAEEDPI\LSARTPSPVHPSDFSEHNCQ PYYAS\DG\ATYGSSSG\CLGNPRADSIH NTYSTDHASAAPPSVTRSPVENDGYIEE GSITKHPSTWSVEAVVFLKQTDPLALC PLVDLFRSHEIDGKALLLTHGVTVLPEAT WGVKLGTGL*SLCYLH*PDLKQKGKCL
1567	9618	A	2517	3	179	
1568	9619	C	2518	140	490	MAWFHDMNPQSIALIPPATTEISADSQLP CIKDGSEGVKDVELVLPESMFEDASVS EGRGTQIEENPLEENILAGEXASQTGDSG NEXANRGDGSVDVSSQTPQTSSDWLEX XLX*
1569	9620	A	2519	194	405	KKILWKKIFWRGKQHLKLVTVVTTAAN RGDGSVDVSSQTPQTSSDWLEQVHLV*TA HIWGSKWIYRYSVC
1570	9621	A	252	303	551	QEGIKSCKSDENSGLAPGQHGETPSLLK V\SKLAGYGGACP*SQLRRLRQENCLN RDLGGGGCSEPRSCHCTPAWTTEQDSV

1571	9622	A	2520	1	2046	MRQNSGGNVHLPAHLVLCGLVPNRPW TGKNKNKRHHLCIPQPPTLAKIAKAAK GSAGNFRYPLILGSFPANWVFMNFFQSK ATLDFNLICSLNVKDVAEVFQKWLKIEG KKCHCLSEKTKQNMGNNTTKFRKALIN GDENLACQIYENNPQLKESLDPNSTSYGE PYQHNTPLHYAARHGMNKILGTFLGRD GNPNKRNVHNETSMLLCMGPQIMISEG ALHPRLARPTEDDFRRADCLQMLKWK GAKLDQGEYERAAIDAVIDNKKNTPLHY AAASGMKACVELLVKHGGDLFAENENK DTPCDCAEKQHHKDLALNLESQMVFSR DPEAEIEAEYAALDKREPYEGLRPQDL RRLKDM LIVETADMLQAPLFTAEALLRA HDWDREKLLAEAWMSNPENCCQRSQVQ MPTPPPSGYNAWDTLPSRTPRTRRSSVT SPDEISLSPGDLDTSLCDICMCSISVFEDP VDMPCGHDFCKGCWESFLNLKIQEGEA HNIFCPAYDCFQLVPVDIIESVVSKEMDK RYLQFDIKAFVENNPAIKWCPTPGCDRA VRLTKQGSNTSGSDTLSPLLRAPAVDC GKGHLFCWECLGEAHEPCDCQTWKNW LQKITEMKPEELVGVSEAYEDDRQ/CVC *VMN*TAKPCANCKSPIQKNEGCNHMQ CAKCKYDFCWICLEEWEKT
1572	9623	A	2522	2	119	ESTVSCCEKPTGAMP*MHTACGRPCPSI WRLTKLSMRLR
1573	9624	A	2523	159	627	LGRMQDPQGGQMRWAYS LTFAKDVCQ LGLSHYFAGAASGGCAQARCGPGR* GPPAPVPSPSPLALPPMGTRKLHPGMWT ALH/VRIP/VPKKEGCVQLIGEISCVLLQK ASWSEASTLCPAKGAIPNGAAFHQRCGR PEAHLGHRLSLAPPREPVET
1574	9625	A	2524	3	307	
1575	9626	A	2525	1053	2813	RTWEKAPEQADLTGGALDRSELSERSHL MLPLERGWRKQKEGAAAPQPKVRLRQE VVSTAGPRRGORIAVPVRKLFAREKRPY GLGMVGRLTNRTYRKRIDSFVKRQIEDM DDHRPFFTYWLTFFVHSLVTLAVCIYGIA PVGFSQHETVDSVLRNRGVYENVKYVQ QENFWIGPSSEDLIHLGA*ISPCMRQDPQ GLSFIRSAREKHSACCVNRNDRSGCVQ TSEEECSSTLAVWVKWPIHPSAPELAGH KRQFGSVCHQDPRVCDEPSSDPHEWPE DITKWPICTKNSAGNHTNHPHMDCVITG RPCCIGTKGRYVCVPASAAGLWAQSIAL GCEITSREYCDFMRGYFH E EATLCSQVH CMDDVCGLLPFLNPEVPDQFYRLWLSLF LHAGQVTLILHCLVSI CFQMTVLRDLEK LAGWHRIAIYLLSGVTGNLA\SAIFLPYR AEVGPAG\SQFGILACLF RGSSSRAGQIL GAALACLLQACWLWVLFHLWGLLP WDLTTFAHIFGSSVALFLSFAFLPYISFG KVRPVPETLPDHHLSGGLPRASWLAWW SSSTSILSAVSRVSSSPASPFTDKLL
1576	9627	A	2526	1	936	
1577	9628	A	2527	1	1023	
1578	9629	A	2528	157	512	LG*LQPPPPGFKRFSCLSLSSWDYRMRH HAWLIFVFLVEMGFTNLISASRVAGITGM RHHAWLIFVF/CSRDGVSTCLGQAGSQT PDLKVICPLGPPKSAGITGVSHCSWPVIY VLSTLLHAVRNVLFKRTFPLKSSSFLSYD KEIFPILIGLKFYLVLTLSFVKGHILLK
1579	9630	C	2529	11	133	MFCSLQPTDLRKEXMNLQTLRLRSSNKH QRFPGLPRGLCD*

1580	9631	A	253	3	401	STFGFQGTGWETRWGPT*PGVSAWSLVP SPVLETPDLERGKRAHLGVATAGGPAGP YRLSPHTLSSRKEGKGEAASKGTEAELM TIGIENSTCQCLSPSFHYFWSPRGAGP KAMWLVGDRKGATKNDKRGY
1581	9632	A	2530	367	676	KVVTLILILQRRKWGA/PGSDPKSPCCSD SKGQASFTAP*CSYLYTADGRLGLAWG* GLNRSAMTSNPDQTHLVAQTSKGPERK HKVSGFLVKVIPATAYDNG
1582	9633	C	2531	156	683	MKLRQRWRHPAHFSGTGKMIGEGTQVS VGTGVTVDTGVGCLSTSSHYANRNADT FRCLCRKRCQRLKKSQRRGVKKSCISVP HRQLSQALQAMRDSSEPWALSISLRFRE DEALASKHYRRNAPRAALRQFLSDFHR DCLNVFKTKYHTLMYMGRTIMRCEPCA CGGEGKKNVLF*
1583	9634	A	2532	427	458	KNSQYTPLTLIQMMGF*FFVF/ERQSHSV VEAGVQSCSHGSLQPLPPGSSNPPTSASR VAGTTGAHHDDLIFLFL*RRGFALLHRL VSNWSRSDSAWPSAFPKWGLGLWDVEA TTPRPGLFSLVAG
1584	9635	A	2533	57	463	ARTPLQAGGLVLSRLLSLPLPLSPLPT VSCARWPLCPRPWSSLPGFWDSWHCNH RTGHRTGPGGLDTQSA*VNKLIWKGKN HL*PQATAQLWPQLGGWQGWTRPS/RW WPLSSPHC*PGYRSLKDSFANTFLF
1585	9636	A	2534	3	469	RKTTTATMTSLCRKVNGGHAG*ETLRL LVVYPWTQRFDSFGNLSSASAIMGNPK VKAHGKVLTSGLDAIKHLDDLKGTF QLSELHCDKLHVDPENFKLLGNVLETVL AIHFGKEITPEVQASW/QEDGDWSGQSP VLQIPLSSLAMMQSCQG
1586	9637	A	2535	41	676	APSPRRPWGHFTEEDQGLLSTSLWCKV NVEKCWKEKTPGKGSLLVVPWTQRF DSFGNLSSAFVAHHGQTPKVKAHGK VLTLGRCQQSTLDDLKGTFQAQLSELHC DKLHVDPENFKLLGNVLTVALAIHFGK EFTP/ERLQASWQKMGD*SGQCPVLQI PLSSLPMMQSFSRIRLLFLQAITNNKSIS AKRSHMIFSSFFIYFLNI
1587	9638	A	2536	107	331	
1588	9639	A	2537	386	1074	NNPEWRTLIYVDKENGEPGTRVVAKD LKLGSGPSIKALDGRSQVSTPRFGKTF D/APHPALPKAT*KGFGELSTGATEKSVK DPGDPLKQKNGPAFSGPKMDLKKDCL KQKS\SVSWPSGLMPNPRNKTFFPLQIL LDF*GVFD/LCPEEHPDLRHLPLS\GVPL MIPLTREREL*KSWFQLGPPFHLWKDGP LPPWGIPICLQFSFGISVRTWGVLDPPV CCDIDI
1589	9640	A	2538	1	359	
1590	9641	A	2539	1	483	FQLEVTQNTLNPFGGPPVFSWRDQAV LRQDGVVVTINKKRNLVSVDDGGTFE VVLHRVWKGSSVHQDFLGFYVLDSHRM SARTHGLLGQFFHPIGFEVSDIHPGSDPT KPDATMVG/LQKDYSKDPWHGAEVSCW FIHNGAGLIDGAYTDYIVPDIF
1591	9642	A	254	1833	2126	EKRKKRGFFKTKPLLKCPGPWGESRFW GPPKGKSQV*G/HI*MGPNLGERWKKGP KRPKKPKTKGPPFVHPPKRNPHLG/ WPGGPTLKKGKNNLGF
1592	9643	A	2540	3	310	EVRLANSSQALRMWLDYGVFTPLTSMI RGMADQDGLKPTIDKPSSESPLEMLGP RRTFVLSALQPSPTHSSSNTQRLPDRVTG VDT*VVT*PYVLCWNLC
1593	9644	A	2541	1	1482	

1594	9645	A	2542	37	2885	SMDGAMGPRGLLLCMYLVSLILQAMP ALGSATGRSKSSEKRAVDTAVDGVFIR SLKVNCKVTSRFAHYVVTQVNTANE AREVAFDLEIPKTAISDFAVTADGNAFI GDIKDKVTAWKQYRKAAIS*EKA\GLVR ASGRTEQFTIHLTVNPQSKVTFQLTYE EVLKRNMQYEIVIKVKPKQLVHHFEID VDIFEPQGISKLDAQASFLPKELAAQTIK KSFSGKKTSNGSHSRRFQGHVLFRTVS QQQ
1595	9646	A	2543	159	1222	NNSGVMPEMPEDMEQEEVNIP**GGFW VTGCHWGFLGRAVHKEFQQNNL/WHA VGCGFRRARPKE*TG*ICWDSNAVHHIA HDFQPHVIVHCAAERRPDVVENQPRCL PLQLNV\ DASGEF*AKGKAAACLGSISPF YI*AQVVFV*WEPNPPYREEDIPAPLNL YGQTK\LDGRKGCPWRNHLGA AVLRIPI LYGEVEK\LEKKCELLMFE*KCQFSQQS PAKQWIIHWQARGSPPHMSKDVAPLCAR Q\LAEKRM\DP\SIKGT\HWSGNEQMT KYEKGMCQLPDA\FNLPSSHL/RDPITDSP VLGAQRPRNAQLDCSKLET\LGQRTPF RIGIKESLWPFLIDKRWRQTVVFH
1596	9647	A	2544	211	463	
1597	9648	A	2545	188	366	SCQSACQKNGKIHLRLQLLGP*DRLEDTL LNTHGLLSQILCQCFLCTCQKVLRI K
1598	9649	A	2546	1257	1441	
1599	9650	B	2547	74	733	MAWKSGGASHSELIHNLKNGIHKTDKV FEVMLATDRSHYAKCNPYMDSPQSIGR VQLVVGDRMGYAEAPYDAIHVGAA APVVPQALIDQLKPGGRLLPVGPAAGN PNVGASIPGSRMASIQNEALWMGGDIRA L*
1600	9651	A	2548	45	972	TVQPHVSGSGGDGSNSGSYSGDASGAV TVWEVVSLLGKLLGTVVALKVVLYLLR VCLAMAWKSGGASTSELIHNLKNGIHK TDK\VEVMLATDRSHY/SQKCNPYMDS PQIK*GFQATISCSTHCNAYALRNFLFWI QL\HIEGSLKLF\DVGSGKWESLLACFAR MVGCTGK\VIG\DAH*RS**DDSVKLMF REGTIP\LLSFRGGVQLVCGGMGRMGY A\EEAPYDAIHVGAAAP\VPQALIDQLK PGGRLLPVGPAAGNQMLEQYDKLQDG SIKMKPLMGVIY\VPLTDKEKQWSGGMI VKATSA
1601	9652	A	2549	2	478	
1602	9653	A	255	70	380	YSNNPKDRKGETGINEKTNNKMVDLSS YTSVITLNF*ML*/D/KIN*KFVKSP*KKPT LCCLLETYFKYGIGGLKVKRWRI*HAH TIGKKT\VAI\ITKHTSELS
1603	9654	A	2550	392	1245	CTFTKVFLLLRIWYRNMLLKNSVTPLPS CHPSAQCLGTLMRALSQVFRDAW/WWV ASVDVVENEEASAIIVKMTDSFTEQAD QVTAEVGKLLGEEKVDA\ILCVAGGWA GGNAKSKSLF\KN\CDLMWEAEHYWTS HLPSHL\ALTKHLKEGGL\TLAGAKAA LDGTPGMIGYGMAKGAVHQLCQSLAGK NSGMPP\GAAAAIAALP\VTLDTPMNRKS\ MPEADFSSWTPL*FLVETFDWITGKNR PSS\GSLIQVVTTEG\TELTPAIFLGLISV PMRWPAQKSH
1604	9655	C	2551	60	266	MSWLSCLSNITVWNISPVLLSFFGGNSLI SHLXKIPEEEFPLTPLLSSSPSGFXPHVPR VLRQSATV*
1605	9656	A	2552	1	513	

1606	9657	A	2553	345	2343	LLGHEEQTRKGKRKAKAAGMVLSQLL TFRD\EAIEFSQEEWKCLDPAQRTLYRDV MLENYRNLVSLGIFSKCEIKELPPKKESN KEKYSRQ*CWKDMKSHRHTKIFCFRETQ KNVHDSQCLWKHD*RHYKRVRVITYKG KSH/CVEETMPG*KG*CHKSQPC*KSSLG LNPAVT/CLPRTCQPISKPEGKIYKYDHM EKSVNSSSLVSPQRISSTVKTHISHTYEC NFVDSLFTQKEKANIGTEHYKCSERGKA FHQGLHFTIHQIHTKETQFKCDICGKIFN KKSNLASHQRIHTGEKPYKCNECGKVVFH NMSHLAQHRIHTGEKPYKCNECGKVVF NQISHLAQHRIHTGEKPYKCNECGKVVF HQISHLAQHRIHTGEKPYECNCKGKVVF SRNSYLVQHIIHTGEKPYRCNVCGKVVF HHISHLAQHRIHTGEKPYKCNECGKVVF SHKSSLVNHWRHTGEKPYKCNECGKVVF SHKSSLVNHWRHTGEKPYKCNECGKVVF SRNSYLAQHIIHAGEKPYKCDECDKAF SRNSHLVQHRIHTGEKPYKCDECGKV FSQNSYLAHWRHTGEKAYRCNECGK VFGHLSFLAHPKIHTGEKPFKNECGK AFSMRSSLTNH\QRLHTGEKHFKCNECG KLFRDNSYLVRHQRFHAGKKS
1607	9658	A	2554	3	517	STRTONVLGEKGRRIRELTAVVQKRFGF PAESLRYKLLGGLAVRRACYGVLRFIM ESGAK/GCEVVVSGKLRGQRAKSMKFV DGLMIHSGDPVNYVDTAVRHVLLRQG VLGIKVKIMLPWDPTGKIGPKKPLPDHV SIVEPKDEILPTTPISEQKGGNAEPPAMPQ PVPTA
1608	9659	A	2555	3	495	
1609	9660	A	2556	24	861	INPPPPRLSFORSAAARWPVQISKKRKV VANGILSKLNLNEFLATRELAEDGYSG VEVRVTPTRNRKSFIFSHQKHRMVLGEK GRRIRVELPAVVQKSF\GFPRGA AVELY A*KRWPT*/RGLCAICPGQSLCVYKPS*G GLAVRRAL/CYGV/LRGSFIGEVGPKGCE VCGCLGKLRGQRA*NP*SFVDGLMIHS GDPV\NYVDT*VRHVLLRQGV\LGKIV KIMLAWDP\TGKIGPKKPLPDHVSIVEP/ RRDEILPTTPISEQKGGKPEPPAMPQVP TA
1610	9661	A	2557	116	718	IFLQAGCLKLVIRSKAGDISHVDTHCQTV HPKAVSISTMTENTPFLTLSPALSPFNLL PFQCIK*YLILTLIFLIAVEVESLCL*SVF LIYKIFL*PLSNFCCL*V/LLYIILNLLFYY MYFPTPLFMKSNFIKVL*KVKGFTF*KCS QIYLLFFHGYWVLCGLWECLSYTFITIFFQ YFLLVIFNFHV*FILIFFIHDMDK
1611	9662	A	2558	88	811	GSGGNHVS\CCDTMEGGGGSGDKTTGV AGFFGAGGAG\YSHADLAGVPLTRMNPL CPY\LVNDPRYL\VGKYKMKFIFTLPelik TRGQDLKLAFFTIGGCCMTGA\AFGAMN GL\RLGLKETQNM\AWASKPRNVQILNNG *LGKGAL\WANTLGLWALLY\SAFGV\II EKTRGAEDDLNTVA\AGTPAGALLYTCTG VGLRGIA\RGGLTGLT\LSLLCTIYNTWG AHGKGSLASNSSLWKVFAQPP
1612	9663	A	2559	1	210	VIIRLPIGKKLFRCKPG*TWAPPGL*SGR PRSSSSPF*N*MHFLFERESSFHRCKWK AGITCVKSWYP
1613	9664	A	256	225	353	RWGFTQLLRRLRQENHLNRGVGGCSEP RLC\TPAWATE*DSVL

1614	9665	A	2560	128	687	THVLWAFPGARVHLQTGSWRAGVAAA ALALGGQASLSYARGKES*GHSPPTHT HKAASGGREKAVSPSVAVVSHGPSPLLS EYTSSQVKGHSQGPDPVVTHL/WAFPF DQLPPSPCPPLSRKEPEPSPLSHPPQGVTP GQAQIGQLRTSGLWGHKRGWARAEG APVSLLLRGPFDPATVSEAGR
1615	9666	A	2561	246	410	.
1616	9667	A	2562	1	414	AWHEETHKVDLGLPEKKKKNKKVVKEPE TRYSVLNNDYFADVSPLRATSPSKSVA HGQAPEMPLVKKKKKKKKVSAALGKE VKRSQSKLRLRNTSP*VMTLRPPQKRK*S PKRR*SSQSSRSQL*KGRKRRRGKRG
1617	9668	A	2563	198	531	RNNPLLSLLALCLVHSSHLCWALPDEG GGQGKERALNSRKIATFFLSSQGTQFGQ WDTAGFENEDQKLKFLRLMGGFKNLSP SFSRPASTIARPHMALGKKAADSLQQNL
1618	9669	A	2564	190	510	
1619	9670	A	2565	1	1977	MEVDFKIRKVGQWTTITLQEHVPVSVLLFIE ETHPENKPTSTAVEESHISRDTVMVNFQ CQLDWSKGYLEAYLTKINSICSHRFLLD GSVTCHDETGSRRDARDTVGTGVRVND ESVEQLGLRRTMWLGICRGAAMAAVST VTAFAGRPRGRSRNPRGWAGDSKWTS GSRRSWLSRGGGEISPTGMITKTHFVYL GLPEKKKKKRVVKEPETRYSVLNNDY FADVSPLRATSPS*DVAHGQAPEMPLVK KKKKKKKGVSTLCEEHVETTLPARRT EKSPSLRKQVFGHLEFLRGKRKNKKSPL AMSHASGVKTSQDPRQGEETR VGKK SKKKHKEKKGGPGPHSLPVQDPWFCEA REARDVGDTCSVGKKDEEQAALGQKRK RKSPREHNGKVKKKKKIHQEGDALPGH SKPSRSMESSPRKGSKKKPVKEAPEYIP ISDDPKASAKKKMKSKKKVEQPVIEPA LKRKKKKKRKESGVAGDPWKEVFPSE MDFAVGELRETDTDLEVVEKKGNMDE AHIDQVRRKALQEEIDRESGKTEASETR KWTGTQFGQWDTAGFENEDQKLKFLRL MGGFKNLSPSFSRPASTIARPNMALGKK AADSLQQNLQRDYDRAMSWKYSRGAG LGFSTAPNKIFYIDRNASKSVKLED
1620	9671	A	2566	1781	2148	VRRFAAAVATLPPGAAPSG/PAPGT/PGP QTRIPGFPWPPLCPLMSGSLGP*TRLLL PPAPQGPAGSPGPIQAGRGLAAPPQPLS PSRGPCAGSSWELRLEGLSDWGTCVPVC PCHYIHPKN
1621	9672	A	2567	1	345	
1622	9673	A	2568	1	582	SGRALHASWAAGGVGAYSGRLRSDALE GESFALSFSASDAEFDAVVGYLEDIIM DDEFQLLQRNFMDKYYLEFEDTEENKLI YTPAFNEYISLVEKYIEQLLQRIPEFNM AAF/TTTLQH/HIRDEVAVVTIFGNAGST FHKIFLGF*RKCFLDYRAEKESRGLDLS SGLVVTSLCKSSSLPASQNNLRH
1623	9674	A	2569	2	705	GSVGAATVRPQPNALRCRLRSRAGRSPV LVFGVGIKQPPCPSKAKTKTKKRPAQR ATSNVVFAMFDQSQIQGVQRGPFNMIDQ WRDGFHSDK/EKVLHDMLASLGKNPH* WHYLDAMMNEGPKGPFKFHQCSLTMF WLRKLNQVTRSPEDCHPETAFCAFD*KK ATGTHFRKDYLRRC*PIHGGIRFPD/ER EVDELYRGGTLLDQKKGNFQITFEFHTA SWKHGSQRPKMT
1624	9675	A	257	238	512	HMYVPNLRTSKYMKRTLIELKGEIDSNTI LVGDFNTTSLTMGRTR*DISKETEDLHN TVDPMDLT/SAELSTQQQNTLSSQAH GIFSRT

1625	9676	A	2570	1006	1022	TRNSFLFFIYIYLFRLMGSCSVAQGWKCS GTILG\HCSLCLRLPGASSNSPTSASHVAG D\SHGMCRRHARLIFAFLVEMG\FHPCWP GLGLELLTLRVIHPTLGLPKCWGL*AGG SAKIGRRAQIG
1626	9677	A	2571	668	863	TFCFFSDLKYSLASCENHLVCFLFVCFAP LV*T*NYFCL*TVNLIFSRRVTELCPFIFI VLIIT
1627	9678	A	2573	258	579	FKQICLFLLLFFEMESCSVTRLECSGTIS AHCNLHLPVGSDDSPASASPTGITGTCH HAQLIFLYFYMTGFRHVAQVGVLLG* *AIHLPWLPKVLGLQAPAPDL
1628	9679	A	2574	157	371	
1629	9680	A	2575	1	1431	MHKAGLLGLCARAWNSVRMASSGMTR RDPLANKVALVTASTDGIGFAIARRLAQ DGAHVVSRRKQNNVDQAVATLQGEGL SVTGTVCHVGKAEDRERLVATAVKLHG GIDILVSNAAVNPPFGSIMDVTEEVWDK TLDINVKAPALMTKAVVPEMEKRGGGS VVIVSSIAAFSPSPGFSPYNVSKTALLGLN NTLAIELAPRNIRVNC/LAPGLIKTSFSRM LGEPCDAGIVSFLCSEDASYITGETVVN LSVMFTGGGVCRAASWKEGGTGTPTPT RESRQREPGETSSTDQENKVVNGLPA NPQRPAEAGPVRRTKNKQKGIASAKD SINIRTKDIHTKTPSIGHQHQRPKVDKT TKMERNQSKKAETSRRNQNVSSLKEYKS SPAREQNWMEKFDLTDVFSRRSVITN YTQLKEHVLTHCKEAKNLDKMLNEWLT RMKNLEKSLNDLMELITTVQELHEGYTS FNS
1630	9681	A	2576	201	398	
1631	9682	A	2577	195	434	
1632	9683	A	2578	150	284	
1633	9684	A	2579	1	625	MHKARLRGHCARAGKSVRLASSGMTRR DPLTNKVALVTASTDWIGFAVAQRLAQ DGAHVVSRRKQNNVDQAVATLQGEGL LSMTGTVCHVGKMKDWERLVATGFSPY NVSKTALLGLAQTLPIELAPRNIRVNCL APGLIKTSFSRMLWMDKEEESMKETL RIKKV*ASPEDCAGIVSFLCSEDASLHSL GKTVVVDGAGTPSRL
1634	9685	A	258	167	408	DRRITRSGVRDQPGQHGETPSLLKIEKL AGHG/GQAPVCGGRSYLRRLRQENRLNP GGRGCSEPRLRHCTPA*VTVRDSVS
1635	9686	A	2580	84	1413	ARKSVRMASSRMTRRDPLTNKVALETA STDGIGFAIARRLAQDRAHVVISRRKQ NVDQAVATLQGEGLSVTGTVCHVGKA EDRGAAWWPPAVKLHGGIDILVSNAAV NPPFGSIMDVTEEVWDKTLDNVKGPK P*MTKAVVPEMEKRGGGSVVIVSSIAAF SPSPGFSPYNVSKTALLGLTKTLAIVLAP RNIRVNCLAPGLIKTSFSRMLWMDKEE EESMKETLRIRRLGEPEDCAGIVSFLCSE DASYITGETVVNLSVMFTGGGVCRAAS WKEGGTGTPTPTPRESRQREPGENQARS SPRMALRPEFPESASTSWMGPEPVGNR ERPCKPARKVGASPRALRRLGSATRMLS RAALRAGVGARAPRPGGGRGAHATATV WSGLASAAALTARALLKRLACAAAPQ RCGWRRLLCSSLGIRSGWPCPPWSSI
1636	9687	A	2581	1	560	MVYRQNLPSCAPEMGREDGLRALHP AQPPPPRAQQSPPPLSA/PEEPPPPRAQQ SPPPPPLTPHRRHPQSFPAPSALSQRQ PGLYSAVTFSGLSGPRTSTCTPSPASSPS AHGLGHIHTDAGVCSLEAQEEAKAPGG RGPSCSAHGALGPTCTSGVAGDSGPVVG SQERALDPRRQGLQH

1637	9688	A	2582	775	1408	TIPVAYVWADPPLPPKGHSCPHPPGSD/D GTRTTGTA/PPCLGFQGDPPVHPAAPP DW**FPNMGQPGPPPPFTWRAQLLLK SSVNMGRGHRWRNVPSGPHLPEQISLSEL GHSHKPLFLRQNPNTVPWDVMLPPPLL NLLYGKMWNVVSLDLWGCHRNEEWRP TNILLAPWRHGRQLKLGAGARGRQLPQ LLLALLLILVGYEMSF
1638	9689	A	2583	3	560	GVPPKSASKFLCTRNGKGRWAQSPPPST A/PPPRAQQSPPPPLSAQK/KPPPPRAQQS PPPPLLTPHRRHPQSFPAPSAPSALSRQR GLYSAVTFSGSLSGPRTSTCTPSPASSPSA HGLGHIHTDAGVCSLEAQEEAKAPGGR GPSCSAHGALGPTCTSGVAGDSGPVVGS QERALDPRRQGLQH
1639	9690	A	2584	189	608	AFLTfNKLHRTDTCRGNKPHPPPPGSK VRKRTWGFAPPGPSPWASLPHGLPPTA GRQGRGR/EGGGRGGPGKGSAPSSGT RAWRKPMGGCLTEDGPYGGPKGLWP*T TNG*K/PPGARWPPLPLGCPLEPRHPVL GP
1640	9691	A	2585	2	847	LKMAAEEPHQKQKQEPLGSDSEGVNCLA YDEAIMAQDRIQOEIAVQNPLVSRLE LSVLYKEYAEDDNIYQKIKDLHKKYSY IRKTRA/DGNCFYSGFRILPLGRHCWDDS KELQRFKAVS/WPRARVDLGCSQ/WGFT *ISQF*GIFHNKFHGT*LSRWRKQTSVAD LLASFNDQSTSDYLVVYLRLLTSGYLQ RESKFFEHFIEGGRTVKEFCQEVPEPMW KESDHIH/MALAQGLNGAIQGEDMDRG EGGTTNPHIFPEGSEPKGYLLYRPGHYDI LYK
1641	9692	A	2586	468	1191	DVSRVGLPPSRAMGWTALLRRGSAV SALASGLVEEPMLGPPHPTPRFKAVSA KSKEDLVSQGFTEFTIEDFHNTFMDLIEQ VEKQTSVADLLASFNDQSTSDYLVGYLR LLTSGLL*GPRASSSTSSKGGRDCKPEF CQEQLEPM*KESDHHSHHCAGPGPSAC PSRVGVHGTAAEGGNHQSAHLSLRASEP KVYLLYRPGHYDILYKIGLGSSPLLPCCP PLPGARHVTEVFLWL
1642	9693	A	2587	1	326	HSVNRKRLNRNARRKAAAPRIE/CVRGLG FRVAVGLGRDGRDDGSAMSLFAGSSHI RHAWDHAKSVRQNLAEMLAVDPNRA VPLRKRKVLTWQGLGPCLLYSSPAIT
1643	9694	A	2588	879	1528	AAGAVVSAMPKAKGKTR*QKFGYSTL RKR\MSRNARRKAA/RAGLECSHIRHAW DHAKSVRQNLA*MGLA\VDPNRA\VPSR KRKVKAME\VDIEEEA*KNLRYRKYVLN DLEAEPSPLEKKGNTL\SRDLHLMYRY MV\ENHGE\DYKAIARD\EKNYIQDTPK QISELRSNVY\KRFYPAEWQDFLDSLQ\K RKMEVKVPGLHHSCPSAEASPGPSEAG
1644	9695	A	2589	1	310	
1645	9696	A	259	660	1200	LTVGKKNRKQQQHQPSPHKGPHLKGQ QPSKVQIEDKFLGR*GKELKNPFTTQKG QSGFVYSKLIHNTSYRQGHSPGWRLRW MN*QK*ASEGG**QTSLS*RTL*PNILER IPELKDWFSKIR\QK*KRIKRKEENLQ*V WGYI*RPILQITGIPERRVEISMHWVRAC SFSSVKFVIP
1646	9697	A	2590	1	716	SALQRLEKKPKPRPPERSPRPRWVPEPQL EVGGACSALAQSPSEKLDPAACKPLS*S* IRRRRPTPAMLFRLSEHSSPEEEASPHQR ASGEGHHLKSKRPNPCAYTPPSLKAVQR \AES\HLQSYSAILNENQGFGRGREDELGE FWELGYPREEDDEEEEDDEEEEDDSQ AEVLKVIRQSAGQKTTTCGQGLEGPWERP PPLDESERDGGSEDQVEDPALSEPGEPPQ

						RSPSPSEPGT
1647	9698	A	2591	39	370	RGWSLVQTPNPRFKNVPGPPTPQVIAEC EESQCGGLGTLGGL*LSPGP*G*TDSRGPP MMPSEAQGGGAASKGPLGPPQAAGIHQ GTPLRMGEALEGQAGQTAGPRVQDGL
1648	9699	A	2592	229	358	
1649	9700	A	2593	257	386	
1650	9701	A	2594	217	398	KAWWNLLRKSEPKSCGS*GGLSTSRLR VECSSLGLGYCG**LCHLQEPHYGSLH RMSS
1651	9702	A	2595	1	3386	
1652	9703	A	2596	442	2093	CGFLQMGTVINHNIPGPEGYWHFFHFN KALLARAAVGAARGIHIHRCGLTKRPDA RRRRVAGAQQREPAISLPGDRAAGARAT RTRGPGPAPKMPAIAVLAAAAA WCFL QVESRHLDALAGGAGPNHGNFLDNDQV WLSTVSQYDRDKYWNFRFDEVEDDYF RNWNPNKPFDAQALDPSKDPCLKVKCSP HKV\CVTQDYQTALCVSRKHLLPRQKE WGTWAKHWGLDL*ILVKICKPCPVVA QSAMV\CGSRWATPNSIPCKLEFHACS TGQK/SFATLCDG\PCPCSSQSLEPPKHKG RKGVPCDTELRLNASRLKDWFGALHE DANRVIKPTSSNTAQGRFDTSLPICKDSL GWMFNKLDMNYDLLDPSEINAIYLDK YEPICKPLFNSCDSFKDGKPLNNEWCLL PSQNPGLP/CAQNEMNRIQKLSKGKSL LGAFIPRCNEEGYYKATQCHGSTGQCW CVDKYGNELAGSRKQGAVSCEEEQETS GDFGSGGSVVLLDDLEYERELGPKDKEG KLRVHTRAVTEDDEDEDDKEDEVGYI W
1653	9704	A	2597	1	844	LHQQAAVAWLPTSFLPSQEHCCSTEW APQPAASGVHIGICFA/RPFASSTVSTEVS GSFCYLPAPWVYGFL*TERPLAWWCL GKYWLQELLGCHPVPLAML*DCLALLK SSLVPMGSPTHCKAIVTEEPLHLPEPAAA AAHTSSPSSCRCKGCLGWVWP GGSAP GPLGPLSFDPTVTVSHQSGPSPAAPGPTTS SS*RPSAPSHGMQGLADSQGHLCRHSRK GLRSFLLSHTHSTCPPHLLQTGMPSPL ISIDADSSPPRIHRLRGQGHFSLAKGGQ R
1654	9705	A	26	238	446	GFV\SLDSR*QWESRSSIHAIVTN*ASS SSSSSSSSVFSRVYPRFIEYLHKDIQSTG QKSPDAWVAGG
1655	9706	A	260	1	680	EQCRSPARARLQPQDPASTEAEERTYP GSIGAPAGEGKVPGLVIYLLWPWQNQDE ALSCLPSEAYSLSRQHGLPLAVNTMSAG GGRAFAWQVFPMPMTCRVYGTVAHQD GHLLVLGGCGRAGLPLDTAETLDMASH TWVALAPLPTARAGAAAVVLGKQVLVV GGVDEVQSPVAAVEAFLMDEGRWERR ATLPQAAMGVATVERDGMVY/VSGGNG P*HGPPGPGT
1656	9707	A	2602	144	520	IGKEEIKLLLPDNLMEYTVNF*MYKPLE LIS*FSKVTEYQVNTEK/SNCIYT*QLQIE NEIAKTI*FMIAKSIKYLEISLTKCNKW RDILCICIGRLSIHKVLVLPKLMCGGEKIF NPNPTGFW

1657	9708	A	2603	105	440	RSTPDPVCLGIRSSGCR TADFREP*MLLS DRSSGSFVSEEYPAV*SVSLPLLGECLPV RLLRDGHWS*HSDSS*VFKMADNFPA GFHRLGRSGDGRAEHRRCCLASQRCC
1658	9709	A	2604	1	1047	
1659	9710	A	2605	1	690	
1660	9711	A	2606	210	424	
1661	9712	A	2607	651	835	PRWSRFPDLVICPPRPPKVLGLQA*AIVC ASISITKMWLRNAGLTSSMNWPRRSARV LSVS
1662	9713	A	2608	198	755	
1663	9714	A	2609	1	1305	MMRAHAPPTAVPACTAPRAPPPRDHRA GIAREALGRTGRSGFRDCLGTREVALQA REKAQAAAWQGEAGCSAHWVRHTRGA APEGRPRVPRAAGVLTGCTVFRRTWIQR DAQIQARQERWAKGESGPWGELRGLAT QPAVRASGRRGRRRLERQDILEVFRCLAA SWNGGFGAVKPPEVADARSGLGSGDSF CLVSVSLTKTAKKGLELKQNLIEELRKC VDTYKYLFI FSVANMRNSKLKDIRNAW KHSRMFFGKNKVMVVALGRSPSDEYK DNLHQVSKRLRGEVGLLFTNRTKEEVN EWFTKYTEM DYARAGNKEGFHC*AWD PGPLEQVPHISMEPQLRQLGLPTALKRG VVTLTLLSDIYEVCKEGDVADPRARASRS* KLFGVMRWLNFKVTIPNYMWDSQSGRF QQIGKTD\LPESA\SEFPESDSEDDDD
1664	9715	A	261	1	403	RTRGQLNRGVYGP RRSLSV PSTLAGAPL AGRLDETS GEEQTLTLCGKMSGPTQPP AEGTEGTAPCGGAPVPPNMTSNRRLQQ TKAQVEEEVDIIPVNGDNVLRDHLKRE LDDRS\DALQARA*PFESSAAS
1665	9716	A	2610	319	632	GEPNISM SLPWGGPSGSTGMPAPAMPL PAMTPQC/C*GQGPV\GPCAS/CASA/CFR CGL*AGRFC/G/PCPGHC*CFYFSNSVFPN VECMGLREPAVLPAFHLGEEAGRISGQ GRSQNLPA
1666	9717	A	2611	156	621	LHVPMELOQSHSKDEVSTYLGMSLPGVA PLGSTGDASPC HAPRPWTPQCSKGQGP CCAP/WCP/CCP/CPPCPWSHGCL*LLCDP CPPPALPAAEGQQPLCKLASAVSGVVSR LGNFATCPWPLLMRPASSPRWKAGRTA GSLRPIHSTLGNTEFEK
1667	9718	A	2612	1	585	
1668	9719	A	2613	1	1047	
1669	9720	A	2614	1	1674	MRSQGEVRRYLKRQSCRFGLSREKDM VTPSASSVCLIDEQIPAAGESYDIIDPRSK HKFKIHTYGSPTFCDHCGSLLYGLIHQG MKCDTCDMNVHKQCVINVP SLCGMDH TEKRGRIYLKAEVADEKLHVTGKACSSR SSIVGRHLDEGYTDIKAGPQLDAFLCISS QPPFGKNAIIITSSSSSIITLLKHGPRRFYSF ASCSCMSSTVSVTNPKILGKFIDSVWV TCHPGPMDCDWRADMGWGPVRLCIWF S

1670	9721	A	2615	3	2089	RPQLPGGGKRWLGGMADVFPNGNDSTA SQDVANRFARKGALRQKNVHEVKDHKF IARFFKQPTFCSHCTDFIWGFGKQGFQCQ VCCFVVHKR\CHEFVTFSCPGCG*GDPTL DDPRRQATRF\KIHTYGSPTF\CDH\CVGS LLYGLIHQGMKCDTCDMNVHKQC\VLN VPSLCGMVHTEKRGRIYLKAEVADEKL HVTVRDAKNLIPMDPNGLSDPYVKLKI PDPK\NESKQKTK\TIRSTLN\PQWNESTF KLKPSDKDRRLSVEIWDWDRTRNDFM GSLSGVSEL\MKMPASGWYKLLNQEEG EYYNVPIPEGDEEGNMELRQKFEKAKLG PAGNKVISPSDRKQPSN\NLD\RVKLTDF NFLMVLGKGSFGK\VMLADRKGTEELYA IKILKKD\VVQDD\VECTMVEKRVLALL DKPPFLTQLHSCFQTVDRLYFVMEYVNG GD\LMYHIQQVGKFKEPQAVFYAAEISIG LFFLHKGRIYRDLKLD\TVMLADSEGHK IA\DFGDVQGN\T*WDGSHGPGTFCGTPD YIAPEIIAYQPYGKSVDWWAYGVLLYE MLAGQPPFDGEDEDELFSIMEHNVSYP KSLSKEAVSICKGLMTKHPAKRMGCGPE GERDVREHAFFRRIDWEKLENREIQPPFK PKVCGKGAENFDKFFTRGQPVLT\PPDQL VIANIDQSDFEFGFSYVNPQFVHPILQSAV
1671	9722	A	2616	1	1136	MTQISNIKQPFAMQHRFFISLLHWTLQIV YPALFLGLCERGRNGRCDQVPEGSVLSL LVWVVPGLAFPEVAPGTCGTSYVPDAG LHGPEVESKLG\LDPGSMTGTQPTRTPAQ PAAAEPPALTGPGRVHQEQAVLACGFLG IYHLGAASALCRHGKLVKDVKAFAGA SAGSLVASVLLTAPEKIEECNQFTYKFAE EIRRQSF\GAVTPGYDFMARLRSGMESILP PSAHELAQNRLHVSITNAKTRENHLVST FSSREDLIKVLLASSFVPIYAGLKLVEYK GQKWVDGGLTNALPHLPVGRVTITSPFS GRLDISPQDKGQLDLYVNI\AQD\IMLSL ANLVR\LNQALFPFSKRKMESLYQCGFD DTV\KFLLENWFE
1672	9723	A	2617	118	1018	VTARPRASRLKGLVQHGSVPGLHCATA RMKHINLSFAACGFLGIYHLGAASALCR HGKKLVDVKAFAGASAGSLVASVLLT AP\EKKLEECNQFTYKFS\EEIRRQSF\GA VTPGYDFMA\RLRSGMESILPPSAHELA\ QNRLHVSITNAKTRENHLVSHFFSSRED PQLRSLSPASFVPIYART*SLVEYK\GQ KWVDGGLTNALPHPCPVGRVTITSPFSG RLDISPQDKGQLRSVCLISAKQD\IMLSL ANLVR\LNQALFPFSKRKMESLYQCGFD DTV\KFLLENWFGIKCIKVL
1673	9724	A	2618	60	388	GLDSFSATETRRTHNTPEPHSQSQEPSNG EPQKEEPAAESRDPTPGQQTEDQDTAEI PVRDMEGDLQELASVKHRG*ILDLSVSV KVKIIPKEEHCKMPEAGEEQPV
1674	9725	A	2619	1	4123	
1675	9726	A	262	72	276	AIQFSVYICVPGICISPDREKRDRGKDG GRHRTWRQGE*KGEVGRERRRRGRER\ DRQRDRDRIYSPD
1676	9727	A	2620	71	547	KQIPSLPISRPSVLAVMVTMTLKVGAPP MLFIQRSVVNSPSCSSERTTVYFWPPSV SPFMTKLDQSLPTRTPTSAGVMLRKVPF PTSREKPTCFSSNA*KELP*GWQESGCSR QCPLSSRETCRASCINESANARGEAVCV LGARVVFLFTSETGNS
1677	9728	A	2621	241	452	ENVMLCIIRAKEKNHMITLSYTVKAFGK LKTFFMIYKNKPQKTL\SMIRREGNTFNPI KGRFEKNS\AGNIILNGIGLNAF\PIKSEKK VEYLLFFQFSILEI*INAIK*EK*IKGRFE KNSEVTLY

1678	9729	A	2622	1014	1432	SARLSLPKCWDYRREPPCPASFLYLKNI LYIIRAKEKNRMITLSYTVKAFGKIENFF MIYNNKPQKMLYMMRTEGNTSNPIKGR FEETGNIILNRHKIGCFSIKSEKKVEYLL LLF*FSIILEL*VNAIK*EKLIK
1679	9730	A	2623	55	316	NFWGGGAPKAPPPKKGFPPKIPRGVLR PPQKEKKLFFPPPVKLGPPKDFLKRAPP* TPKKFFFPKP/YKFLGGGGPKSPPPKR VFSQNPPRGFKSPPPKRKKIIFPPRKIGPP QGFFKKGPPPLFIFFCLFPAFMETTCPFSK SLSKKFTKTK
1680	9731	A	2625	1	963	PTRPNFHSPHTSPAAGVSAALRCSGR RSLEVATSLPHSPGPRPAADVKMSSSEE VSWISWFCGLRGNEFFCEVDYHPGT NFNLTDLNKQVPVHYRTSSKP*SLDPEPD AELVEDNPNQSDLAIEQAEMLLWDLIH ARYIPLPTRRHRPRCLGKVPKGDGFGYC PRVYCENPANCFFIGLSDIPGEAHGESS YCPQ/CAMDV*HTPSQSRQPSTRMGA*L RATGFPSSHGSFMVAIPELPGKRPAPQSF VA/RGFLRGFKIHVMAYPAGSFQGRPAT FKKPQFKTDSLIPSPTCPAVFCLFLSFLPT LSGTLYGF
1681	9732	B	2626	44	403	MKALILVGGYGTRLRPLTLSTPKPLVDF CNKPILLHQVEALAAAGVDHVILAVSYM SQVLEKEMKAQEQLGIRISMSHEEEPL GTAGPLALARDLLSETADPFFVLNSDVIC EFPFQAM*
1682	9733	A	2627	159	309	IGPSLALGSKVFLQKKQSLLFIRCWLIA LQDLWPQGWNTAEMGWA*QMG
1683	9734	A	2628	545	2302	AACAPSPRTESSTVSSLPLLQECLLGAMK ALILVGGYGTRLRS/LTLSTPKPLVDFCN KPILLHQVEALAAAGVDHVILAVSYMSQ VLEKEMKAQEQLGIRISMSHEEEPLGT AGPLALARDLLSETADPFFVLNSDVICDF PFQAMVQFHRHHGQEGSILVTKVEEPSK YGVVVCEADTGRIHRFVEKPQVFSNKI NAGMYILSPAFLQRIQLQPTSIEKEVPFI MAKEGQLYAMELQGFWM DIGQPKDFLT GMCLFLQSLRQKQPERLCSGPGIVGNVL VDPSARIGQNCISGPNVSLGPGVVVEDG VCIRRCTVLRDARIRSHSWQESCIGSGG SWKLLTIDQDLMVAQFSTPSLPPTLKVG FLPSAGKEQSVLWVSLEAEPIPDHWDGI RVLQPPPRARECAEVRMENVTVLGEDVI VNDELVLNGASVLPKHSIGESVPEPRIIH DGGFAEEAVLVVHQVLVDGTSTGEGM RTALHVPTALPTTKLWGPLLADLWAQG WDTAEMGGGSCCLGRCRGQVRQDLFQ LGQLIGTDHRIWGVVGSVKSEVADVMP LEYSQPTTLFLRLLTRPSRFP
1684	9735	A	2629	124	1315	RARGRARRWECAAGTGQAGCRHLRAR DTPSTSAGAMKALILVGGYGTRLRPLTL STPKPLVDFCNKPILLHQVEALAAAGVD HVILAVSYMSQVLEKEMKAQEQL*IRIS MSHEEEPLGTVGPLPLARDLLSETADPF FVLNSDVICDFPFQAMVQFHRHHGQEGS ILVTKVEEPSKYGVVVCEADTGRIHRFV EKPQVFSNKNAGMYILSPAFLRRIQLQ PTSIEKEDLPIMGKEGQLYAMELQGFWM DIGQPKDFLTGMCLFLQSLRQKQPERLC SGPGIVGNVLVDPSARIGQNCISGPNVSL GPGVVVEDGVCIRRCTVLRDARIRSHSW VLESCIVGWRCRVGQWVRMENVTVLGE DVIVNDELVLNGASVLPKHSIGESVPEP RIIM
1685	9736	A	263	166	396	PQIPPPGIPRKRENLSREPGG/PNPWGG* A*FPLLEKFLGKKNLGPPPGGPTPFPF NPPLLGGPKGGDQKAGKKP

1686	9737	B	2630	162	276	MGRRANESLNVLIYHFLFQKGVCQRL QLVQVVLQHLLX*
1687	9738	A	2631	2	292	
1688	9739	A	2632	3	2111	SSCGLGGQHGLGAARVRSLFKEARARA PCIVYIDEIDAAGKKRSTTMFGFSNTEEE QTLNQLLVEMDVFYAKIEELKLVNRRAE TGVSLSRCSTQK*KS*NCILITVFYAAIE ELKLMYPYHGVLCSSRRKLSSCSNKEMT QSEKSQA*YRMTPLGMGTTDHVIVLAST NRADILDGALMRPGRDRHVFIDLPTLQ RKGVALSPRLECSAAITHCGLNLQGSS* GARTTMGVRRRAG*FLTESRCVAKAGV QAAISAHCHHLPGEA/RKIFEQHLKSLK LTQSSTFYSQLAELTPGFSGADIANICN EAALHAAREGHTSVHTLNFEYAVERV AGPHGFQLWESSGFLPEEWGQLLCQTLQ NTPGFSPALTALRGREDWRCLCLTENLFSC NHLLLCGNRKAFYNSSKAGRTEWEPQA S*KKIHDVLECSGPRADSSCTEWTLTDV WKI*DRK*SLTRTAKKSKILSKEEQKVVA FHESGHALEGWMLEH/TEAVMKVSITPR TNAALGFGQWMLPKDQHLFTQ/ESSFERR FIALGGRAS\EHFSLNEVTS/GAQDDLK VTPIAYSMVKQVGMAPGIGPISFPEAQEG LMGIGRRPFNQGLQQMMDHEARLLVA\ KAYRHTKVLQDNLDKLQALANALLEK EVINYEDIEALIGPPPHGPKKMIAPQRWI DAQEEKQDLGEEETEETQQPPLGGEEPT WPK
1689	9740	A	2633	2	2416	FQANMAVLLLLLRALRRGPGPGPRPLW GPGPAWSPGFPARPGRGRPYMASRPPGD LAEAGGRALQSLQLRLLTPTFEGINGLLL KQHLVQNPVRLWQLLGGTFYFNTSRLK QKNKEKDKSKGKAPEDEEEERRRRERD DQMYRERLRTLLVIAVMSLLNALASTS GGISWNDVFHEMLAKGEVQVRVQVPE SDVVEVYLHPGAVVFGPRALMYRMQ VANIDKFEEKLRAAEDELNIEAKDRIPVS YKRTGFGNALYSVGMTAVGLAILWYV FRLAGMTGREGGSAFNQLKMARFTIVD GKMGKGVSFKDVAAGMHEAKLEVREFV DYLKSPERFLQLGAKVPKGALLGPPGC GKTLAKAVATEAQVPFLAMAGPEFVE VIGGLGAARVRSLFKEARARAPCIVYIDE IDAVGKKRSTTMFGFSNTEEEQTLNQLL VEMDGMGTTDHVIVLASTNRADILDGA LMRPGRDRHVFIDLPTLQERREIFEQHL KSLKLTQSSTFYSQLAELTPRFSVADIA N\NEAALHAAREGHTSVHTLNFEYAV ERVLAGTAKKSKILSKEEQKVVAFHES GVHPLVGWMLEHTEAVMKVSITPRTNAA LGFAQMLPRDQHLFTKEQLFERMCMAL GGRASEALSFNEVTS/GAQDDLKVTRIA YSMVKQFGMAPGIGPISFPEAQEGLMGI GRRPFSQGLQQMMDHEARLLVAKAYR HTEKVLQDNLDKLQALANALLEKEVIN Y*/EDIEALIGPPPHGPKKMIAPQRW/V DAQREKQYLGEEETEETQQPSLGEEPT WPK
1690	9741	A	2636	350	1256	LCLFPLPARKMATNFLAHEKNLVDKFK YDDAERRFYEQMNGPVAGC/ASRQENG ATVILRDIARARENIHKS LAGSSGPGASS GTSGDHGELVVRIASLEVENQSLRGVV QELQQAISSEARLNVLEK/TWPGHHRAT GPQ/TQHVSMPMRQVEPPSPRSPPTAEG/ DARDDDDIALFGSDNEEDKGGGTSLE E/RGFRFPGEKRPKKPRLVAQLSFLG* NPWDR*KDMAQLEACVRSIQ/LGTGRS WGASKLGAPWATGIRKVLQIQCVVEDDK

						VGTDLLEEEITKFEHVQSVDAIAFNKI
1691	9742	A	2637	1	304	GKTFDTFCPLGPALVTKDSVADPHTLKI CCRVNGKVVQSGNTNQMVFKTEDLIAW VSQADVILGTTPPGVGVFRKPPVFLKKGD EVQCEIEELGVIINKVV
1692	9743	A	2638	1	927	
1693	9744	A	2639	3	847	PSGSDFAAAVVPRLDAVTGASQAAPAA LDLPPREP*LSAGGPVAAAAAARALAAQ LPVLPREVTFLAPVTWPKVVCVGMN YVDHCKEQNVVPKEPIHFSKFASSIVGP YDEVVLPPQSQEVDFWEVELAVVIWKRK ASTSR*SGKGGPLPVQSAEAPAPASPSD LTHQHTVPAVPDTRKQSASLLPDATFPF THLWLALATNMG*QLRDPLP*VLVSPMI *PPVWPNNLPP*ATDAMAHVAGFTVAH DVSARDWQMRRNGKQWLL*KTFTDFCP LGPA
1694	9745	A	264	3	413	SSYRWPSFPILKTCRGPMAPSLSFPQSFLS GLSVPLPLHHPPCPT*LKAAYPNCQLWP FLASVAPDTAPPECPSCFLLQRAQA/PPF LLDLFPYDC*GLCCT*PHQPRGNPLTPRQ GLWLGLKTHCMGTAKAGPIPR
1695	9746	A	2640	2	562	ITPRFHLICSDPHNLKICCRVNGEVVQSS NTNQMVFKTEDLIAWVSQ*VTRAVLSAP LHLPHMWRLT*ALHLWLWPLSQPLVSL GPFALLQ\FVTFYPGDVILGTTPPGVGVF RKPPVFPQGRFSEKQREQGPPKPLAGLPS DLRSTGLCMCV*RKGLTSLWPALLQKG DEVQCEIEELGVIINKVV
1696	9747	A	2641	867	1476	LVPVLRRLPLPLTSRPASPNSAQEDRLPPV RRQEVNWEGELAGVIGKKGKPIKATDA MAHVGGFTVAHDVSARDWQMRRNGK QWLLGKTFTDFCPLGPALCDQVTGVAD PHNLKICCRVINGEMVPERQTPNQMVIS RQRT*IALGLPSLVTLPPGDVIPNLGPPH LHPGVGVFRKPPVFL/KKGDEVQCEIEEL GVIINKVV
1697	9748	A	265	646	1333	EPGMWQSPPSIGCPHRTGQASCA/SPPS TGLS*IPAFPGWRPA\WHLHPLLTSPCTC* L*SLGVFPVPPQPWSTPSQDLNDIFPV PPSYRWPSFPILKTCRGPMAPSLSFPQSFL SGLSVPLPLHHPPCPT*LKAAYPNCQLW PSSASVAPDTAPPECPLLLCFRGPSPILL TSPICLLRLLQLSSPASGESHYPOGRAV GWA EKPSAWSTRSLALGFPMNNEN
1698	9749	A	2651	28	352	VRVWVGNAGCRLCFRADGVASGVGCA WDGDRMCLPESFIRAPVLSVSTAGPQSS QGSSGRSATPGEGAQGINRTLSPALPSP PMAPPSYLVGTSPAPHSDDGCWP
1699	9750	A	2652	1198	1889	LKLPIFRDLKVQCGWVELENRLTKMLLS TSVLSCFSSRPNMSEVSCNKRYDYLEWP EYFMAVAFLSAQRSKDPYSQVGACIVNS ENKIVGIGYNGKPNGVHNSLFP*RRTPK NKLDTKYPYVCHAELENAI/NKKFRPDV KRPEVCMFALVPPGK*NGGLSLII/LQAGI KRKLIFHVLINYPG*LTGATA\ARLLF*YG PGVTFARKFIP/KCSKIVIDFDSINRPSRKL Q

1700	9751	A	2655	1099	1712	CALGEGNSGHRAFSKDRARLRPGWWSG RAKDELGKPKPLGPS*RRADRR*QGSAC DSSPPSGPGP/TGDGARGRC*AARPGPRA RRRLGPSGEDRSCQMGTEEEHGRWL GLSVGPAPKPESAPSSLTCPREETPGRGR PPAPQFQSLARSHGIRGAGDKPTEKSL PQQRHRGGASSVGRGPLGFFPLEEAPLP YPWPPNLQ
1701	9752	A	2656	1	900	
1702	9753	A	2657	465	1269	TSSSCSCHPPNACCRGTSSVLSQKAGQ APHLPGPTGKPLRSSGSLRAVRAPGPIGG GQAPWSDPPVLQAPPRPQAPRGSWRG AGPRQPGRDAAAPRMLLPFQPRYRTLQPP RLLMPKKNRIAYE/LLFK/EGVMVPPKKD VPIPKHPELADKNAPNLVMMKPMQVSQ GRGGYVKGGQFAWRHFYWYLT*GSK CQLHTEAARLGQF/DIIPTRAL*PATG HLSMRARSLEVQRPTAAPSGPSWLSLLQ KGMWTGKNEDLHFRRCR
1703	9754	A	2658	1	433	
1704	9755	B	2659	140	480	MVFEFLYKMCVMAAYFGKISEENIKN NFVLIYELLDEILDFGYPQNSSETGALKTFI TQQGIKSQHQTKEEQSQITSQVTGQIGW RREGIKYRRNELFLDVLEKVNLLMSPQG S*
1705	9756	A	266	268	926	ASCTPFPTLPVRGRLGYNPDSPGTSNAH WAGDNEMSLVGLGPVTKPYPHGALPQG WGSWWVRGLSRTPAVTLSQLCSCVLE TCWGPGEAWFLSPQSVMCDESPPSPA DPQDGLGVYGLASSWTNVQPTWNTSR IGSACQA/RSEFNKSHLFIFLEGET*GPQK GGGVPPKPHYKAPMQSPGPILWTQPRAP PTGAIYFFLQMGPPWRFSLFGVGG
1706	9757	A	2660	100	1674	SAAMIGGLFIYNHKGELISRVYRDDIGR NAVDAFRVNVIIHARQQVRSPTNIARTS FFHVKRANIWLAAVTKQNVNAAMVFEF LYKMSDEMAAYFGKISEENIKNNFVVH YMELLDEILEFGYPQEFRD/SGALKTFITP AGHSRSSGFRQKEGSSQFTSQVTGQIGW RREGIKYRRNELFLDVLESVNLLMSPQG QVLSAHVSGP/VWVMKNYLSGMPECKF GMNDKIVIEKQGGKTADETKQEPGSNQL LIDDCTF/HTQCVRLSKFDSERSISFIPD GEFELMRYRTTKDILPFRVPLVREVGR TKLEVKVVIKSNFKPSL/LGQKIEVRIQPP LNTSGVQVICMKGKAKYK/AGENSFVW KIKRMAGMKESQIQRGFELLTNDKK KWGC/RPPFPMNFEVPPFAPSGLKVGAYL KIVLNPKNYSDHVIKVVWR*IGRSGIY ENSACKATRQLAQLPQPPFLQVQVPLL PQTHQVSPSLPALLPSPLHQARSLRSGP KQHYKVGPEPALGLPGQGEF
1707	9758	A	2661	1	356	
1708	9759	A	2662	303	774	DPKSCGRWRRGRNGELADLQAESH ARAAGRGLPGALARVQPEAAAAEVGAR CGRGA/AENSIDFVSRELCAHSIRKLQAH VLLIKAVHGYFDPRENYSDKESLSFMIDT MKSTLKERFQFVEVPGNHCVHMSEPQH VASIISFLQCTHTLPAQL
1709	9760	A	2663	572	902	GALARA*PPQQRWVSCPR/GVP/GAL*RE FTMFLSLQAENSIDFISRELCAHSIRKLQA HVLLIK*VAQAGAQRSQLTGYGSLTWA CPPLTTVKSHGTAPPHLLHEPSPTSDLPP SMTLLPGGLPKDLES
1710	9761	A	2664	1	398	PNPLSTQMGTSGGKGHQUELLEYSPPGGP PPGPRKQFHCSPPPPNPASGKKGH/SPPL /SPHSFSKVKFNQAPPPPTPTPKQERKS* LKMLFNFSAPVDPTPAQMAPGLFVPS SPPLHRLPPQAWGQRHSQQ

1711	9762	A	2665	119	496	TGAVSFQMPEETQTQDQPMEEEEEVETFA FQAEIAQLMSLIINTFYSNKEIFLRELISNS SD/GEPMGRGTKVILHLKEDQTEYLEERR IKEIVKKHSQFIGYPITLFVEKERDKEVSD DEAEKEDN
1712	9763	A	2666	1	235	
1713	9764	A	2667	1	2424	RKVREASGKSAARWAGPSLYKAGAGV ARQLLQRPVAVPLVLCGHLAKMPEET QTQDQPMEEEEEVETFAFQAEIAQWISLII NTF*LETKRSFLRELISNSSDALDKIPVLN A*HDPHSIRPLGKEL\HITLLPDQTKIRTL TIVDTWNLE*PKAD\LINNLGTIARSLGT KAFMEALQAG\ADISMIG\QFGVGFYPA\ YLVAEKVTVITKHNDDEQYAWESSAGG \SFTVRTDTG*TYGSVGTKVILHLKEDQT EYLEERRIKEIVKKHSQFIGYPITLFVEKE R\DKVETDDAPQEKEDKEEEK\EEKEEKES EDKPEIEDVGSDEEEKKDGDKKKKKKKI KEKYIDQEEELNKT\PIWTRNPDDL TN E EYGEFYKSLTNDWEDHLAVK/HFFQFEG QLEFRALLFVPPTVLPFD\LFENKKKKKN\ NIKLYVRRVFIMDNCEELIPEYLNFI RG VGDESLPLNISREMLQQKPKF*KFSRK NFGPKKCLELFTELAEDKENYKKFY\EQ FSKNIKLIHEDSQNRKKLSELLRYTTS\ ASGDEMVS LKDFCPR\MKENQKHYYIT GETKDQVANS AFVERLRKHGLEVIYMI E PIDEYCVPLAKEF\EGKTLVSVTKEGLE LPEDEEEKK\KQEEKKTKFENLCKIMKDI K\EEKVEKVVS NRLV\TSPCCI\VTSTYG WTANMERIMKAQALRDNSTMGYMAAK \KHLEINPDHSIIEPLGPKA\EADKNDKSV EGILVIWLKETAPPS\SAFSLAENPRTHAT R\YRMIKP\GLG\IDEDDPTADDYQWLLV TEENPP\LE\GDDDDTSRMEEVD
1714	9765	A	2668	524	797	AVSPSEGEQERGEKRAGA\CGSRL*SQHF VRPRWADHLRSGV*DQPGQHGETPVST KNTKISWAWW*ASVIPATREAEAGEWL EPRRRRLQ
1715	9766	C	2669	102	323	
1716	9767	A	267	599	1420	SHLPSLSLLPRIPPEVIVGSE RGPVVFPCP WGSCWGLSRTPAVTL SQGLCSCVLETC WGPGEAWFLSPQSV MCDLES PRSPADP /RGWKFRVYGLASSGQMCNHLEYSRML VLARHSELISPTY SFFEGETEAQRG*GIPP KPHSRNAEPGPYTGTHTWPLHTGTFTF SSQMRGPSGLLD SGGWIKTEGDKEKAPG LMGLKDRDTGT CYGCVC SKCPGQGLQA GGVLYLAQPPALIRLPNGPRPARARERR DWHHREETGFLLEATLLKARP
1717	9768	A	2670	146	804	TETRFSDSVAQQAGPGTFGLLLALPRL TFSPLSFPTVGT KCGNPLWAPKPCPALA APSGCRMTWKEQGRKMGVNC/PRPVAA CMCV*TGKRPPSPMFLSPRFSSETRRAA RGSSSEL PWAGAWSASSSDSPLPRSTAP RRSVCTHCGLTOPTRHACQKGAGVCVR GPRSEAKGGWRGRALLLAATPCPLSCP NLGLPAKV TPEQGLVRRGGRPAGP
1718	9769	A	2671	1	787	LNSRVEPRVRSRTMETKPVITCLKTLLIY SFVFWITGAILLAVGVWGKLT LGTYISLI AENSTNAPYVLIGTGTIVVFLGFCFAT CRGSPWMLKLYAMFLSLVFLAELVAGIS GVVLRHEIKDTFLRTYTDAMQTYNGND EARSRAVDHVQRSLE/SCCGVQDYTNW STSPYFLEHGIPPSCCMNEVTDCNPQDLH NLTVAAATKV NQKGCYDLVT*FSWETN MGV IAGSGRLGIAFSQLIGHAGWACCL SRFHGGPIQY

1719	9770	A	2672	1	670	YKVLIFT/SPCS/VDQLCSALCSCFRPKDT ER/LRG/APEGFSRTDLHLA/VVPVLTALI SYHNYLDKTKQREMYRLEQGLIHRCP/ RQCVALSICSVEMPDIIIKALPVLVVKL THISATASMAVPLLEFLSTLARLPHLYRN FAAEQYASVFAISLPYTNPSKFNQYIVCL AHHVIAKPLHRLQSPHLAMRWASGSAS SPRWRTSPSLCEAGALPPALALDGIACQ
1720	9771	A	2673	1	154	
1721	9772	A	2674	237	410	
1722	9773	A	2675	1	414	
1723	9774	A	2676	1	6371	MPDSCGLHIPAAHAAPSRDARIAGLSAR GRHRTTTPSKLPRRPSAQCRYRKCGSRF RRRPGARGVRLSPRRGGPERGGAAREGF SGASWSTMAKPTSKDGLKEKFKILLGL GTPRPNPRSAEGKQTEFIITAEILRELSME CGLNNRIRMIGQICEVAKTKKFEEHAVE ALWKAVADLLQPERPLEARHAVLALLK AIVQGGGERLGVLRALFFKVIKDYPSE DLHERLEVFKALTDNGRHITYLEEELAD FV
1724	9775	A	2677	1	5405	MAKPTSKDGLKEKFKILLGLGTPRPNP RSAEGKQTEFIITAEILRELSMECGLNNRI RMIGQICEVAKTKKFEEHAVEALWKAV ADLLQPERTLEARHAVLALLKAIVQGGG ERLGVLRALFFKVIQG/DYPSEDLHER LEVFKALTDNGRHITYLEEELADFVLQW MDVGLSSEFLVLVNLVKFNKLVTLDE VQSQRNGFKMICLLACVRTASSVDIEVS LARLLDAVGLANNCLPAESLPLFIV
1725	9776	A	2678	1	5469	GASWSTMAKPTSKDGLKEKFKILLGLG TPRPNPRSAEGKQTEFIITAEILRELSMEC GLNNRIRMIGQICEVAKTKKFEEHAVEA LWKAVADLLQPERTLEARHAVLALLKAI VQGGGERLGVLRALFFKVIKDYPSEDL HERLEVFKALTDNGRHITYLEEELADFV LQWMDVGLSSEFLVLVNLVKFNKLVTLDE DEYIARMVQMICLLCVRTASSVDIEVSL QVLDAVVCYNCLPAESLPLFIVTLCRTIN V
1726	9777	A	2679	35	239	SPSSQPPVPVIPH*PVCKQPTSCRSRKR V LNLVGGGEGAASY
1727	9778	A	268	1755	2524	VPWGNPGSESVGLPGGRGLVTAPAVFLP PKPAPGFGAQHVRSRK/PSRRGQLIRAA WLTGSPVRPGQEMLGAGRGASGRAG* GPAPYRKLSSASARGAGHPESGNCSSSG SGSTWSSSWGSGSGSSWGSRGLSQEMV EEVL/HFIQGGAG*AGGTLQWALVSNLG FGVRQDDIVVVTLIGLHGSIEDGAGVQ GRSEAMEPRQAG/RTGEGWLGGHSSETP HPPAGTSFCNLRPTVSREAAPAGRRGAE SQTSLPSTSA
1728	9779	A	2680	118	359	AVCKQPTSCRSPPCCSPGCQASPC*AFRR LEI/CRAGF*A*ALGPGKSQGNCPRSSPP PSP/CPLLKYGQNCG*KCPQRLH
1729	9780	A	2681	229	455	TMQGSNLKPLPSP*PRAATKIPNP/SPSP PQAPQTTPHSILSTKAMTPVTIQALFSRI VRYLDCRRDLSLTQSF
1730	9781	A	2682	1	373	

1731	9782	A	2683	72	1031	GCPRLILLRGRSGLEPGTFRKMAAARPSL GRVLPDSSVFLCDMQEKFRHNIA YFPQ IVSVGSRMLKVARLLEVPMLEQYYPQ GLGPTVPEAGD*GPSAAWQKTCFSM/CC LPLQQLDSRPQLRSVLLCGIEAQACILD PRSYPLALTSYPQNTTWDLLDRGLQ VHVVDACSSRSQVDRVALARMRQSG AFLSTSEGLILKLVGDVHPQFKEIQKLI KEPADDSGLGLFQGGNSLPPLNSNPALR EDHPPVHPGPQWEARFPPSLGFRVGAIF PGSCRPLVGGGQWCCLPIGQLPEMQM RLLETGWEMG
1732	9783	B	2684	1	792	MGVLP SYFWDEEAEAQEGICLSLKORM PVGRAGHSGHFLADATSRALARREEW GKQEERG VKESSESTNTTSRMKTPKEDV RPGMTAFEPEALGNLVEGRIDSILKTV SNSFSLGACCLLSFHVLLDGTAGRGSDR DEQNAHSVVPEQQARAHHPESHILM GDESACIAYIRTRSTWTLAASHAPPSRRD PCLAPPGWQMDRPLHRSGAPSVLPHSQ DTDTEMNQERYMNASISFPKPPHSTSQQ VLFIQPGEEREI*
1733	9784	C	2685	10	126	
1734	9785	A	2686	2	370	HCIQQILEAVLHCHQ/MGVVHRDLKVPGE KKNQTLGRAVLLSFT*RRQLSLGLHQLH SLAPSAGTSWISLLIMVSVAGFAGT/PG YLSPEVLRKDPYKGP/VDLWACGG*RFS GPLPGVILYILLV
1735	9786	A	2687	1	1593	
1736	9787	A	2688	3	1607	IPGSTISSSVKPVLC LHSAA RACKWSLG SGAEQQR LSPGPPVSLTCLPSARMATIT CTRFTEEYQLFEELGKGAFSVVRRCKV LAGQEYAAKIINTKKLSARDHQKLEREA RNCRL LKHPNIVRLHDSISEEGHHYLIFD LVTGGELVEDIVAREYYSEADASHCIQHI LEAVLHCHQMGVVHRDLKPENLLLASK LKGA AVKLADFLAIEVEGEQQACVGF AGTPGYLSPEVLRKDPYKGPVDLWACG VILYILLVGYPFWDEDQHRLYQKIKAG AYDFPSPEWDTVTPEAKDLINKMLTINPS KRITAAEALKHPWISHRSTVASC MRQE ARGPA*KKFNARRK LKGAILSTMLA/T RNFSGGKSGGNKSDGVKESSESANTTI EDEATKVRNQEIKVTEQLIEAISNGDFES YTKMCDPGMTAFEPEALGNLVEGLDFH RFYFENLWYRNSKPVHTTILNPHILMG DESACIAYIRITQYLDAGGIPRTAQSEET RVWHRRDGK WQIVHFHRS GAPSVLPH
1737	9788	C	2689	6	167	MXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXIS KH*
1738	9789	A	269	3	389	GVSPCWPGWS*TPDLK*STRLGFP RCWD YRLLEVD PCTGHSIYL*KDPPVLP LPAEG CDYQGKEYALSSCCDKSYLLPDYRTKFL CCHPERGTWKLGT VGGCYAPIQSFGIAD EQAWLQH GSGAVYLC
1739	9790	A	2690	310	593	LQVISEYLFWRINFFLFLF*TVSLSVAQA RVQWRDPGSLQPLPGFKRFLASASRV ARVTGAHHLHAQL/ILYF*VETGFHHVG QAGLELLTSGK
1740	9791	A	2691	58	481	LQVISEYLFWRINFFLFLF*TVSLSVAQA RVQWRDPGSLQPLPGSRDS*ASASRVA RVGTGAHHLHAQLFCIFK*RQGFHPGWSG WSSNLPDLQANPAASALPKVPGITGTSPL HPPWSINFKNIKIWNQETSILVFFRL
1741	9792	A	2692	1	398	

1742	9793	A	2693	3	267	AMVGGGGVGGGLENANPLIYQSRGER PVTAGEEDEQVPDSIDAREIFDLIRS*AW PLTPQPAYWYPGPSSCQGCYRCFLES LTMRN
1743	9794	A	2694	1	942	
1744	9795	A	2695	3	707	AMVGGGGVGGGLENANPLIYQSRGER PVTAGEEDEQVPDSIDAREIFDIRRCWAR AGSGGLRWGEQ*YRAAGGAASQQGVP GRGF*VGKGAESLFLHFPQ/LIRFLNDP E HSLTLEELNVVEQVRVQVSDPESTVA VA FTPTIPHCSMATLIGLSIKVKLLRSL PQRF KMDVHITPGTHASEHAGKGLVVR VLA RAPPKQSEASPLHRSLWARLEMGN CVSE IARDSSVWVIA
1745	9796	A	2696	2	604	ARSHRISGGGSAMVGGGGVGGGLEN A NPLIYQRFGEVPVTAGEEDEQVPDS IDA REVFDLIRSHQMTPEHP/LTLEEL NVVE QVR/VQVSDPESTVAVGFPKPT HSGTCR HGPPLIGLSIKVKLLRSLPS AFSRWDVA HLLPGDPLQEHA VEQATLQIKEAGWAT ALGRTPHLL EVVNQCLSSPAPGTWAFV PLSLA
1746	9797	A	2697	79	690	KVSKAIAAGCLRNYGVCLAHLRTWAI PEP PKMNPVVEPLSWMLGTWLS DPPGAGT YPTLQPFQYLAEVHIS HVGQAMLNFSF NSFHPDTRKSMH RECGHFHASKPDT/NK VGLCQAP QNTGLGWNWKEGEVKRARS LCIRI PLPFARISFRQGKPHVEQIT/RGKFR L/NSEGKL*ADGSPMGNPRHSPMT/Q HH HDTYQEGEHRKP
1747	9798	A	2698	1	405	
1748	9799	A	2699	1	1437	
1749	9800	A	27	244	309	NPKGQKDREAPLSRSVFLKIKIKRA FAL LLHGRF*PSTPAASASPASKSP RGSGKAL ASALFYIVQLTK
1750	9801	A	270	555	1181	RGPMERPKQMTAVHCQGHQRGDSEI RN FRCHGPNSCTRWGSPPHASASF STCL*N KPKYFPWGISLSFSLRRSL /DSVAQAR VQWCNLGSLQPLPPRF* QFSCIRLLSS*D YRCMPPCA/NYL* F**RQGFTI*ARLVLN S*PRDPPV LASQSAGITGVSHQARTFFLF FET TFHSAHAGVQWHDLSLPPPPRF KRL SCLSLSSS
1751	9802	A	2700	78	399	FIHRPSDSGPPAERSPCRGRVCISG KKHS YPSCWYPLPKHTASCPISTS ILTPLPLDL RIPLMWKDTEYFKNK GDLHRWAVFLL QLGEHIQDTEMI IVDRTLTYCI
1752	9803	A	2701	2	368	VVAGALGCSWLIGAGFLSGREGACRR ERGQQQTGTPLPSSLPLPSLEKRAG RTA ATKARLDTLCLEPPLQLAFPPG DPTYPT SLFSSSLPLPA/WPPEQW GEENLSQQP EGV*QELQRDKGSFC PLPKSWPPL*RGG GARLQLARNRG WFPVWKGRGLQKGAG TAADRHTPA FLSPSPFSGKASWENSCH QSETGHS VPRAPSAAGLSSWGPHLSSLR FL FLPCLGSRQAPGA AVGRKFVTAARG GLTGVAEG
1753	9804	A	2702	1	588	VRAGELDQALGRPFTLSISNQYGD DEVHTLQTESREALQSWMEALWQL FFDMSK REGGWVEPLGRTGVCHFY* RPLFQDYV EGNVAGERAAWLSLLI SALLPGQWKQC CDEIMKIETPA RKPQALAKQGS LYHE MAIEPLDDI AAETDILTQREGARLETPPP WLAM FTDQPALPNPCSPASVAPADWT HPL

1754	9805	A	2703	46	1825	AAAGSETGLGSCLEGKGAEGSGDSSRQ AHPCLPLSLSSLLWKSEDELQRKLDHEI RLRKGPC\KLLANLLPSEKQALEA\TKSL LVCNSRIL\SYMGE\LQARKEA\QLLGKT SRRPSDSGPPAER\SPCRGRVCISDLRIPL MWKDTEYFKNKGDHLR\WAVFLLLQL G\EH\QDTEMILVDRTLTDISFQSNVLF AEAGPDF*TCGLELYGACVEBEGALTGG PKRLATKL\SSSLGRSSGRVRASLNSAG GSR/GAIPFMLPTPEVGGPRYHLLAHTTL TLAAVQDGFRTDHL\TASHEENPAWLPL YGSVCCRLAAQPLCMTQPTASGTLRVQ QAGEMQNWAQVHGVKGTNLCYRQP EDADTGEEPLL\TIAVNKVMGPLVETVR AGELDQALGRPFTLSISNQYGDDEVTHT LQTESRGSTCRAWMEALWQLFFDMSQ WKQCCDEIMKIETPA\PRKPPQALAKQG SL\YHEM\ALFEPLDD\AAVTDILTQREG ARLETPPPWLAMFTDQPALNPCSPASV APAPDWTPLPWGRPRTFSL\DAVPPDH\ SPRASLRFAPLPTFSESPRTRGLLQAKGQ PRTWLQSPV
1755	9806	A	2704	1	370	
1756	9807	A	2705	1	363	
1757	9808	A	2706	158	301	IIMTLAEDLLCSAAQNSRLSAQRTQAGW LLISALMTLGNSL*KVYIP
1758	9809	A	2707	182	395	
1759	9810	A	2708	1	434	SSYIPFSIQIQLFPTHTFTL*HPVSWKNC RK*TRENK/ITAELEIFQEGIKVLETLVT VAEEHHRAQLVACLLPILISFLDENS LG SATSIMRNLHDFALQNLQMIGPQYSSVF KSLVASSPALKARLEAAIKGNQESVKVK I
1760	9811	A	2709	112	501	
1761	9812	A	271	80	599	SIQEKRLSGGEQSPTFLKELQEGTSWLLM AKLYEAVTFKDVAVIFTEELGLLDPAQ RKLYRDVMLENFRNLL/SQWGINHAMEI LSTS*GKEKLWVMGTSSQ*ERNLGGKIQ TEMETVPEAGTHEEFSCQIWEQIASDL TRSQD TTISNSQLFEQDDNPSQIKARLST VHTR
1762	9813	A	2710	1298	8400	FPTNTTFPLLKVCYRFHYAEPVPGHCR AGVRREGADWGTGSADKQRGPFFLLDY GKVWL\PCAQQNDVREKQKTLVEQLLSL LNSSPGPTRKLLAKNLAILYSIGDTFSV HEAIDKCN DLIRSKDDSPSYLPTKLA AV VCLGSLYKKLGRILGNTFTDTVGNILKA MKSAESQGRYEIMLSLQNILNGLGAAAA PCHRDVYKAARSCLTDRSMAVRCAA AK CLLELQNEAIFMWSTDLDVATLCFKSF EGSN
1763	9814	A	2711	2107	2424	TTRYLKKTSTTGQRKKRGRGNGSFPTEN LVPSGTVTGSQQLGPPFR*N/HTEECWGP PTADGRAGKGPRQPGRAQRIYRWDP DGTTWHHRPCGSRGTDQPETK
1764	9815	A	2712	1	368	FRREGRPAGAGAGFADSGGAPSSCCGPT VRPVAATAENVLHVRGAFQEFPVCCAG VQWRNHGSLRPPPPGSSHPPIAS*VVET TGMCHHVWLIF**NFFVETGSPYVAQAL ILLMLGIKTL
1765	9816	A	2713	1	278	
1766	9817	A	2714	188	406	

1767	9818	A	2715	123	914	PRAGGCGGSGRVTACLCACATLVWPPR FQEVLLVLSGLVHARGCTYSQLWSRSH FCCSRGPLAMAGILFEDIFDVEGY*PEGQ EVWTECSRHLCESESFRMDLILDVNIQIY PVDLGDKFR/LVIASTLYEDGTLDDGEYN PTDDRPSRADQFEYVMYVK/VYRIEGDE TSTEAATRLASAYVS/YGGLLMRLQGDA/ NNL/HGFEVGLPRVYLLMKKLSLLNLAL NQPSLPSHSGRGHCSSLSGQPLFAHLLRK GWLTVHRWRHL
1768	9819	A	2716	1	2415	
1769	9820	A	2717	2	964	
1770	9821	A	2718	276	482	
1771	9822	A	2719	329	3354	PVRQFIFPKLPIRHCLEAEVGGRGQTCA PRKWAVPIGLHSRSATSQSGCGGGRSWL CSSLKMAAQPPRGIRLSALCPKFLHTNST SHTWGHVSQLELIG*CLWIPDVNAKQI WGLTKQW/NDHICLTFTDNGNGMTSDK LHKMLSFGFSDKVTMNGHVPVGLYGNG FKSGSMRLGKDAIVFTKNGESMSVGLL SQTYLAEVIKAEHVVPVAFNKHQRMIN LAESKASLAAILEHSLFSTEQKLLAELDA
1772	9823	A	272	1321	1913	VEMRRNQCKNSSNSNGLCVICPSNNHTS SPTRVL/TWMNCLELHKYNN*IWIGKKII *TQENGKTQSEENKNNIKVLQELKDKVA GIIKKNLTDLNAPKNTLLEFHNAFTSINS RK/DKSDERISELEDWVSNIRWTKVN*NE QILHGGWDDIMRPILQITGISEREVEKSN NLENNVQDIIFESFPNLARKANSQIQE
1773	9824	A	2720	1135	1476	HGVSLLLPRLECTGH/VISAHCDPRLPGF EARFSCSLPSSWADYRHAPTHAQAKFCI FKWRRGFHVGQAG*HFYFPSQVLGTN MEDFFLTGLLHGLFQEDSNAPYSFKWG SLR
1774	9825	A	2721	670	1253	ACYALNLPKHTDIFYFFFIYFFCRDRGP RYITQAGLKFDVDFK*ILPPWPYQSVGISV SHPPGPH*CILNAINKNYRYRN*LLY/IQ YPMLFGVFLRQGAFT/SAAVQWYDHG SMQPQLPGLRWFSHLSLLSGWEHRRTPP RLG*FCIFSRESFVMLPRLVLNSWGSNDT PALASQSVVITGMSHHAPAFPMFL
1775	9826	C	2725	95	310	MREYNLVVLGSGGVGKSALTQVQVQGI FVEKYDPTIEDSYRKQVEVDCQQCMLEI LDTAGTLPRLTTYRT*
1776	9827	A	2726	1	1101	
1777	9828	A	2727	53	772	IPRSGITGSEGDPVYKSMCLTAPSMALS RSSVFKQITSLREYKLVVLGS*GVGKSAL TVQFVHGIFVEKYDP/IEDSYRKQVEVD CQQCMLEILDTAGTEQFTAMRDL YMKN GQGFALSIFYLQSQSTFNGLYRDLEGNQ ILRV*GTRE/VMFPMILVGNKCDLEDERV VGKEQQNLARQWCTLALLESSA/RRSE IQVNEVLAYDPVRQINREY/TPVEKKKP*K NSMSTLLGPVRRQL
1778	9829	A	2728	377	615	VPAQCSF*DTASCLLVKRKMRLDAVAH AYNPSTLGGRGGWI/TRGQEFKTSANM VKPVSTKNKKISR/VWWHNRNPSYSGG

1779	9830	B	2729	1	1224	MPTVGKAQARRRTRDTLLDITQVLIDQ SPRKDTGLAQQTGIVVPSKGIVKYWRAQ LKGDMDKYASPAFELFYFSVRAQSTDGIV TLLDPTTREDCDISSAPNPEVRTQRQAEV AGVGLLAVKVRDEEGVLGGAPGPQKR SRVCGEPTLQRRSGPLPVARPGSRCPPT SVSSPVEDEYGRTVVMIRLDNPGISGRT IENNPPLEKQLPGEPSENSPYLGPPQVLF LLRDPREDVMLLNQTPPTAEKQAVLQ AAEIFRNEQQISYNTSKGKKGDRCEEIA ETPFQIGSEAVPLDNPWNSSSSAGEWK RRHFLICILEGLERTKAKFLNCSKLSMVD QKPDENPAAFMERLREALIEQTSLSPSV EKQLILKDKFVTQSASNIRRLKQQAIGP ISTLKNLLK*
1780	9831	A	273	193	310	
1781	9832	A	2730	877	1536	TNFLFALSPSCLAGLLPPKFKQFSCLSLS SWDYRNFIYFW*RWGFTMLARLVNS*P Q/CDPHTSASHSAGITGMSHCAWS*TLNF FSYELFFSFTSALS*KDHCKGGHNMGCQ FT*MHQ*L*EKPP*LLFVETESRVA/QAG VQWRNLGSLQPPSPGFKRFSCSLPSSW DYLRTPPRPANCCIFSRDGVSPCPGW SQSLDLVICPPWPPKVLGLQA
1782	9833	A	2731	3	643	RLEEDLGRRQSLAPVGVVRVETYFTVVL WITIMGIOGGSVLFGLLLVLAVLCHS\ GH*PCQC/YNGFLPQTADCQKQPFNCSS GFWMRVFITQKLG YQVYNK\CWKFEHC NFNDRHNPA*RKMGLTILLCKKG/LRCN FTE\RLENGGS\SEKTVLLLGEHFWA AAWEPSIPKSNTRECFLTKLPRSLRSSVF PLGWPHSKGLDIFQMGSWLGKE
1783	9834	A	2732	11	431	RHLLAAPPAPAAAAAALSHCLRSSG RLAPHTSRRLPRVVKRRVNALKNLQVK CAQIEAKFYEEVHDLERKYAVLYQPLFD KRFEIINAIYEPTEECEWKPEDEEISEE LKEKAKIVDEKK\DEEKEDPKGIPEFW
1784	9835	C	2733	257	358	MILLVFLPXHQVFLERXQESEILHHLNTL ADVL*
1785	9836	A	2734	2	387	
1786	9837	A	2735	64	467	PAAWLPILVAARQLTVQMMQNPOILAA LQERLDGLVETPTGYIESLPRVVKRRVN ALKNLQVKCAQIEAKFYEEVHDLQRKY AVLYQPLFDKRFEIINAIYEPTEECEWK PEDEEISEELKEKAKIEDEKKD
1787	9838	A	2736	1	795	
1788	9839	A	2737	1	982	
1789	9840	A	2738	2	138	SARGAASCSSRCCRCRPESLPAQLRAA WLPILVADIWSSYNMADIDNKEQSELDQ DLDDVEEVEEETGEETKLKARSA*LFR MMQNPQILAALQERLDG/LWVETPTG YIESLPRVVKRRVNALKNLQVKCAQKE TQFYEEVHDLERKYAVLYQPLFDKRFE IINAIYEPT/EKECEWETR*RKDEDFGGN WKEKGQIEDEKKDEEKEDPKG/IFPEFW LTVFK\NVDLLSDMVQEHDEPILKHLKDI KVKFSDAGQPMFVLEFHFEFNEYFTNE\ VLTKTYRMRSEPDDSDPFSFDGPEIMGC TRVPR*DWKKGKNVTLKTIK\KKQKHKG RGTVPYCDLKPVSNDSFFNFFGPLESSL RSGDLDDDAEAVLAADFNEIGHFYRERIIP RSVVNFTGEAIEDDDDDYDEEGR*RSRG* GRLAPHTSRRYLEFLQHGRH

1790	9841	A	2739	1	435	PRARAERPAPASCSSPTSTRITPTDTEVC IVERLFSSSLVAIVSLKAPRKLKVCFFKK GTEICNYSYSNTILAVKLNQRQLIVCLEE SLYIHNIRDMKVLHTIRETPPNPAGLCAL SINNDNCYLAYPGS*SGEAGAGQLLFAN FNQDNTDTEVCIVERLFSSSLVAIVSLK APRKLKVCFFKKGTEICNYSYSNTILAV KLNQRQLIVCLEESLYIHNIRDMKVLHTI RETTPNPAGLCALSINNDNCYLAYPGSA TIGEVQVFDINLR
1791	9842	A	274	831	1102	HFGRPRQVDCLSSGVQDQPGQHGEVQS VLKLAKKLAGHGG AHL*SQLLWRLRHEN HLNLGGRGCSEPRWCHFTPWTTEQDS V*NNNNNNK
1792	9843	A	2740	3	438	
1793	9844	A	2741	1	1336	MLRLQRIKTLRPPGCPHPMTTCSAGTLS AVPCVSPRQVFVFERRFCLWHSHEMFT HVLFPVISADTEDVCIVERLFSSSLVAIVS LKAPRKLKVCFFKKGTEICNYSYSNTI LAVKFNRQLIVCLEESLYIHNIRDMKVL HTIRETPPNPAGLCALSINNDNCYLAYPG SATIGEVQVFDINLRAANMIPAHDSPLA ALAFDASGTLATASEKGTVIRVFSIPEG QKLFERRGVKRCVSIPLAFSMDGMF LSASSNTEDTVHIFKLETVKEKPPEEPTT WTGYFGKVLMASTSYLPSQVTEMFNQ GRAFATVRLPFCGHKNILG*PTIQIPR LLVGAADGYLYMYNLDPOEGEGECAL MKQHRLDGSLETTNEILDSASHDCPLVT QTYGAAAGKAYTDDLGA VGGACLEDE ASALRLDEDESEHPMMIIRTD
1794	9845	A	2742	152	1616	VQDPPSRARPPRPGPLAARPAMNLSAQ SGEAGAGQLLFANFNQDNTVEVKGASRA AGLRRRAVVWSLAVGSKSGYKFFSLSS VDKLEQIYECDTEVCIVERLFSSSLVAI VSLKAPRKLKVCFFKKGTEICNYSYS NTILAVKLNQRQLIVCLEESLYIHNIRDM KVLHTIRETPPNPAGLCALSINNDNCY LAYPGSATIGEVQVFDINLRAANMI PAHDSPLAALAFDASGT*LATASEKGT VIRVFSIPEGQKLFERRGVKRCVSI AFSMDGMFLSASSNTETVHIFKLETVKE KPPEEPTTWTGYFGKVLMASTSYLPSQV TEMFNQGRAFATVRLPFCGHKNICSLATI QKIPRLVGAADGYLYMYNLDPOEGEGE CALMKQHRLDGS LGKRPNEVLDSASH DCPLVTS DITAGLAGKGTYPSSPTETCP TRDDLGA VGGACLEDVGPALRLDEDS EHPPMILRTD
1795	9846	A	2743	122	1162	LGLEGDGGASQWVGGRQLQDCRNRSL QGSPETLIPP/SLQITVPSRTCFP/SLQVGL T/FPPRAVPSAAAAALGRNLRL*RGWHHRI IPPWVASISRAASSWG/TKPPLFKVPSQPE TLGETWVIKMGAGTYGGRNTLPRSPGG NFRSTVPR*VQTTPRQPGAGLPKPVVVA TSSD*QASRSSPGRSRKDGPDSPALPVS/ RGEPEPSLQPPPPSTR*PSRLRGRPPSA LSGPLRAPEHAQSSTSPSRWTTSPRMLR APARAPPCPSPTLVVSTPSPFP*RWVSQ* SGHTPGRFFPCSPPRIRASACASLGT TD GSTAYQIAHAPHHVFLTSRAFLRLAGS CTNHG
1796	9847	A	2748	54	188	NMTKLQVVSKNLLKMLIKERETQRK GGSS*KSTQGA KGGAPR
1797	9848	A	2749	572	857	GQKKGFMSMG*GEKGLGNPSWGTAGG QAPVPPQGLTGTRFTQGSSG/TAGPPAST FCLGGHGAVVGTYGRQMYMYEFVFC VGVAQKKDLCPRE

1798	9849	B	275	53	403	ALVTEFQETHSQDAIEHVLNLANFAYD PSNYQYLRQLQVLHLFLDSLSEENETLV EFAIGGLCNLCPDRANKEHILHAGGVPLI INCLSSPNEETVLSVITTLMLHLSPPGRSFL P*
1799	9850	A	2750	3	127	
1800	9851	A	2751	1	359	LILVKA AAAALDTGHLSPWFGVRCAFQNP GRRGCS/PEGKQLQSRVI*G*EFQSTAAC EEHYMASIRRSVSPSLSVCTSPSPVLDIL PPTDLYFEQHSPIL*LKVKGSLH*RSSPLR KES
1801	9852	A	2752	1	1270	MGATTMDQKSLWAGVVLLLLQGEMG FCYVARAGLELLGSRSPPASASQSAGITG SAYKLVCYFTNWSQDRQEPGKFTPENID PFLCSHLIYSFASIENNKVIKDKSEVMLY QTINSLKTKNPKLKILLSIGGYLFGSKGF HPMVDSSSTRLEFINSIILFLRNHNFDGLD VSWIYPDQKENTHFTVLIHELAEAFQKD FTKSTKERLLLTAGVSAGRQ MIDNSYQV EKLAKDLDFINLLSDFHGSWEKPLITGH NSPLSKGWQDRGPSSYYNVEYAVGYWI HKGMPSEKVVMIPTYGHSFTLASAETT VGAPASGPGAAGPITESSGLAYYEICQF LKGA\TRGSRDQQVPYAVKGNQWVG\ YDDVKSMGDQGSVL*RFKTWGGAMIW SIDMDDFTGKSCNQGPYPLVQAVKRSLG SL
1802	9853	A	2753	385	570	KLGTQDKGGRILLVWAKLHQLSY*HI RVLSIGGN*GPGE*MGMPGVHLLFFRT KIRIQI
1803	9854	A	2754	1	1022	MTLAPSDQDLFVFRSGPPAAAGMPCIFF PEVPFCTRVHQPTGRDGSKNLLNELFIAC PGGLMAQGPLDPTESSVPNTKALCGIFS DVAATAENRQTFMQSAIQFLRKYNFDG LDIDWEYPGNRGSPADTQQLFITLLKEM YEAFAQESTRSKKPRLLMSAAVSAGKGT IETACQIPEMSSSTPSRKEPPRVWNAPWE VPYVYKGNQWIRYDNSKSFTLK/AVLPH SKDKV*TEFFALLCLSPA HGKFTQAEPK SGGDRASGLLQSTHLYPGHQLAPIITAA PGGGSTGGSGFCTGKSKGLYPVPHSKH AFYNCVDEHTYEEACQEGLVFDT/SCISC CNWA
1804	9855	B	2755	143	867	XVVVLLLLQGGSAYKLVCYFTNWSQDR QEPGKFTPENIDPFLCSHLIYSFASIENNK VIKDKSEVMLYQTINSLKTKNPKLKILL SIGGYLFGSKGFHPMVDSSSTRLEFINSII LFLRNHNFDGLDVSWIYPDQKENTHFTV LIHELAEAFQKDFTKSTKERLLLTAGVSA GRQMIDNSYQVEKLAKDLDFINLLSDF HGSWEKPLITGDN SPLSKGWQDRGPSSY YNCEICCGVLD*
1805	9856	A	2756	2	394	CSAHSTALRVVRNHFYFTITATQVHKGS SSHPCTDRGNEMMASSPQPSAFGIPGWG AR*PAPAPLPHRRGLPGSVTG*WRPIVGQ */PSPHTHCKASTKAQPEGPGTPPPGKPS WKELPESHKKSLAPSFP
1806	9857	A	2757	499	1592	QSQPFLSAGLNQTVPWGTCLHRAELSP STENSSQLDFEDVWNSSYGVNDSFPDG DYDANL\EAAPCHSCNLLDDSAFFIL NQCSWGILASRTGLFMPFRPFRRWQLCP GWPVLGTAGCGAVAFFQHLWVPVFGP QGYGS\TRSSALL*LGATGVWYGSAFAQ ALL\GC\HASLGHRLGAGQVQGLTLGL TVGIWGVAALLTLPVTLA\SGASGGLCTL IYSTELKALQATHTVACLAIFVLP/LGL FGA\KGLKEGIGLMGPGPLDEISLWA\WF IFWWPHGVVLGLDFLVR\SKRLLSTCL AQQALDLLNLAEALAILHCVGTPLLLA

						LFCHQATRLLPSLPLEGWFFHLDTLGSKS
1807	9858	A	2758	1541	1830	KRFLHLHQHTSGKGSRGFHLCCCGFSS KSP/GS*PGAGGASSSSQSKSPGPRPARV RRRLWVRAPPATSQEEASAGRRVRPPSS VHVNIPPPSVRPA
1808	9859	B	2759	4	1698	MGDFNTPLSTLDRSMRQKVNKDIQELNS ALHHMDLIDIYRTLHPKSTEYTFPSAPQR TYSKIDHIVGSKALLSKCKRTEITNCLSD HSAIKLELRIKLTQNHSTWKLNNWLL NDYWVHNEMKAEIKMFFETNEIKDTTY QNLWDTFKATLNQEEVESLNRPTGSEIQ AMINSLGTTKLQDQDTSQPSSTRDDMIV YLENPIVSAQNLLKLISNFSKVSGYKINV QKSQAFLYTNNRQTESQIMSKLPFTIASK IIKYLGVLTRDVKDPFKENYKPLLNEIK EDTNKWKNI PCSWGRINIMKMAILPKVI YRFNAIPIKLPMTFFTELEKSTLKFIWNQ KRACIARSILSQRNKAGGITLPDFKLYYK ATVTKTAWYWYQNRDIDQWNITEPSET MPHIYHYLIFEKPDKNKKWGKDSL FNK WCWENWLATCRKLKLDPFLTPYTKINS RWIKDLNVRPKTINTLEENLGNTIQDIGM GKDFMSKTPKAMATKAKIDKWDLIKLK SFCTAKETTTVRNRQTEWEKIFAIYSSD KGLISRIYKELKQIYKKKTTPSTSG*
1809	9860	A	276	842	2432	SLISCSEGSPPKASGPSS*EHCPAKPLGPG TWPLLTGPESGGGGPDVGLRIGQPMN AAPV*SSPCL*N/PGFLTSGVSSV*MPVL LKEPAFQMAEKAPNGAVCAP/SFPASTS GLWSPA VGVPRSRSLHGSALPWGHAPR Q/SGYPGQSAPAGCGPRPPGGGSRSPGR SVPGSGAWRWPRGRSEACTAPRAWRSA LGESCPAGSGA*AW*WQTAPSPHWGW IGS***VGHLLRAGCAPCWCLGTGCTG LPSRSGHKSLSLSVQQVQWLIRFFPLS* M*KPAACLPS*RERPSCAHTAGGVMMG FLSV*SVIR*SLSHCLAAESSPHPGAPGQG TATQIGGGGSRYVQRG*NHRPCRS*PIQR PCGQAGSGGRVASTWCAQ*QTPPGSHSP PTANREINPGAAAADTRSCWGHKRSW RGWRGLAPWRLGFGSPWNSRDQGPAGI PAARRGGPTFGFLAHGPR*RRTPRDGRE GGKGAGAKPSETLTRSPVVRGKRGSA NGFLSWVQILQYFAAGNGIWMGRGLRI L
1810	9861	B	2760	1	1044	MGRNRSRKDENSKNQSASSPPKDRSSSP ATEQSWMENDFDELTEVGFRRLNQEEV ESLNRPIRGSEIEAIINSLPTKKSPPDGFT AEFYRRYKEELVPFLKLQSYEKEVILP NSFYEASIIIPKPGRDTTKKENFRPISLM NINAKILNKILANQIPQHIKLNHEDQVG FIPGMQALFHIQESINVIHHINRTKDKNHI IISIDA EKAFDKIQRFMLKTLNKLDDMI VYLENPIVSAQNLLKLISNFSKVSGYKIN VQKSQAFLYTNNRQTESQIMSELPFTIAT KRIKYLGIELTRDVKDLFKENYKPLLNQI KEDTNKWKNI PCSWGRINIVKRATLPK*

1811	9862	A	2761	1331	2175	TEPKTKTT*LSQ*MQKRPLTKFNNPSC*K LSIN/IVLEVLARAIQEKEIKGIQLGKEE VKLSLFADDMIVYLENPIISAQNLLKLISN FSKVSGYKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRDVKDLFK ENYKPLLNEIKEDTNKWKNIPCSWIGRIN IVKMAILPKVIYRFNAIPIKLPMTFFTELE KTTLKFIWNQKRARITKSILSQKNKAGGI TLPDLKLYYKAIVTKTAWYCYQNRDID QWNRTEP*EIMLHIYNLYIF
1812	9863	B	2762	1	2898	MRQKVNKDTQELNSALHQEDLIDIYRTL HPKSTEYTFPSAPHHTYSKTDHIVGSKAL LSKCKRTEITNCLSDHSAIKLELTIKKLT QNHSTTWKLNLLNDYWVNNEMKAEB KMFETNKNKDDTTYQNLWDTFKAACKG KFIALNAHKRKQERSKIDTLTAQLKELE KQEQTHSKASRRQEITKIRAELETETQK TLQKINESRSWFFERINKIDRPLARLTEK KRKKNQIDAIDKNDKGDTTDPTEIQTII
1813	9864	A	2763	3	668	
1814	9865	B	2764	64	1242	MINSLGTKKLQDQTDSPSSSTRDDMIVY LENPIVSAQNLLKLISNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMSKLPFTIASKII KYLGVQLTRDVKDPFKENYKPLLNEIKE DTNKWKNIPCSWIGRINIMKMAILPKVIY RFNAIPIKLPMTFFTELEKSTLKFIWNQK RACIARSILSQRNKAGGITLPDFKLYYKA TVTKTAWYQYQNRDIDQWNITEPSETM PHIYHYLIFEKPDKNKKWGKDSLKNKWC WENWLATCRKLKDPFLTPYTKINSRWI KDLNVRPKTINTLEENLGNTIQDIGMGK DFMSKTPKAMATKAKIDKWDLIKLSKF CTAKETTTVRNRQTEWEKIFAIYSSDKG LISRIYKELKQIYKKKTTPSTSG*
1815	9866	B	2765	287	898	MNINAKILNKILANQIPQHKKLNHEDQV GFIPGMQALFHIQESINVIHHINRTKDKN HIIISIDAFAFDKIQQRFMLKTLNKLDD MIVYLENPIVSAQNLLKLISNFSKVSGYK INVQKSQAFLYTNNRQTESQIMSELPFTI ATKRIKYLGIQLTRDVKDLFKENYKPLL NQIKEDTNKWKNIPCSWIGRINIVKRATL PK*
1816	9867	B	2766	1	1443	MKLPEEASGSNICCYAIFAVLQPLLVIPK ETVSGVDLQQTPTDLQLSDLTPGRKTNK QKGIASPTKRTSTPKPHLQANAQRFC HQACVTRVPKGSTKHGKEQLVPATAKT CQIVKNINAMKKLHQLTEIQTIREYHKH LYANKLKNLEEMDKFLDYTLPLRKQEE VESLNRPIMGSEIEAIIINSLPTKKSPPDG FTAKFYERYKEELVSFLKLFQSIEKEGIL PNSFYEASIIIPKPRDITTKENFRPISLK NIDAKILNKILANRIRQPIEKLIHHDQVGF IPEMKGWFKCKSINVIHHINQTNKDNH MIISIDAFAFDKTQQPFMLKTLNKLGTI RQKKEIKGIQLGKEEVKLSLFADDMIVY LENSIVSAQNLLKLISNFSKVSRYKINLQ KSQAFLYTNNRHMESQITSELPFTIDTKR IKYLGIQFTRDVKDLFKENYKLLNEIKE DTNKWKNIPCSWIEESIS*
1817	9868	A	2767	1	966	
1818	9869	A	2768	1	216	
1819	9870	A	2769	3	2074	
1820	9871	A	277	721	1027	

1821	9872	A	2770	1	1632	MHCILPTPSGSGSPVYTSQSQPKTPGAF SGTLSVREPLSPEPDVLLPGSAKCAALC WVFSVLDAAASPVTWRVPSRSPWECRCV PSPPVREAPVSPPFQCAPPPYTDCLSPYL YEYTVCPSPCARVPIPSSTHPWEYKVP HAERLCVSEDPPCLCNWKTRAAGARES SLVPCPYAARYPPSPRVAWSSHFSYRG LSPSLGPNKPGNPRGPSESPAAAASRPRA AAASAPPPGAARLPASPTPRLARDRGVS
1822	9873	A	2771	842	2353	TEPKTKTT*LSQ*MQKRPLTKFNNPSC*K LSIN/IVLEVLAIRAIQKEIKGIQLGKEE VKLSLFADDMIVYLENPIISAQNLKLLISN FSKVSGYKINVQKSQAFLYTNNRQTESQ IMSELPFTIASKRIKYLGIQLTRDVKDLF KENYKLAPLIKEIREDTNKWKNIPCSWIG RMNIMKMAILPKVIYRFNAILIKLPLTSFT KLEKTTLKFIWNQKRARIAKSILSQKNK AGGITLPDFKLYYKAIVTKTAWYCYQN RDIDQWNRTEP*EIMLHIYNYLIFDKPEK NKQWGKDSL FNKWCWENWLTICRKLK LDPFLTSTYTKINSRWIKDLNVRPKTIKTP EENLGNTIQDIGMGKDFMTKTPKAMAT KAKIDKWDLIKLSFCTAQETTIRVNRQP TEWEKISAIYSSDKGLISRIYKELQIYKT KTNNPIKKWAKDMNRHFSKEDIYAAKR HMKKCSSLAIEMQIKTTMRYHLTPVR MAII/RIKSGNNRCWRGCGEI
1823	9874	A	2776	3	2077	
1824	9875	A	2777	3	1038	TAEGTWIAVRRLRLEGTGGEMSRVPAFL SAAVEEHLRSSSLIPLETALANFSSGP EGGVMQPVRTVVPVTKHRGYLGVMIPA YSAEDALTTKLVTLLRGPRHHLRSSLP TRVIVTLLSPAMGTLLAVMDGKCS*IA KRTAAVSCHLPPSFLKPPSSEVLCILGAG VQAYSHYEIFTEQFSFKEVRIWNRTKEN AEKFADTVQGEVRVCSVQEAVAGADV IITVTLATPILFGEWVKPGAHINAVGA SRPDWRELDDELMKEAVLYVDSQEAAL KESGDVLLSGAEIFA*AGEK*FKGVKPS /YCEKTPRCSKSLGMAVEDTVAAQTHP MIPWSSGK
1825	9876	A	2778	2	2037	
1826	9877	A	2779	3	194	TFFFQVKPDGTYVKPLSNKLTGYTMV FVRSFLVGEAARALSKACTIAIRYSVR HQSEIKPG
1827	9878	A	278	615	2182	PQVIRPPWPPKVLGLQGLLTFRDVAIEFS QEEWKCLDPAQRTLYRDVMLENYRNLV SLDTSSKCMKMFSSSTGQGNTEVVHTG TLQIHASHHIGDTCFQIEKDIHDFVFQW QENETNGHEALMTK/YQKVDECTERHD QRHAGNKPLKMSLDQAFIRICLKCTYFT PKGKLVIKLRLSTMLS/HVSASQRISCRP KTRISNKYRNNFLQSSLLTQKREVHTRE KSFQRNESGKAFNGSSLLKKHQIHLGD KQYKCDVCGKDFHQKRYLACHRCTG ENPYTCNECGKTFSHNSALLVHKAIHTG EKPYKCNECGKVFNQSNLARHHRVHT GEKPYKCECDKVFSRKS/TLERHRRHT GEKPYKCKVCDKAFRARDSHLAQHIVH TGEKPYKCNECGKTFVQIHLVMHKVLA HTGEKRYKCNECGKVFNHKSNLACHP* TSIPGRETFTRVMECGQGFNRKSNLER HHRLHTGKKS*KC/EICKVFRQQSNLAC HHRLYTGEKPYKCECDKSFQFQITP
1828	9879	A	2780	1	903	
1829	9880	A	2781	133	402	
1830	9881	A	2782	2	242	

1831	9882	A	2783	26	2229	RFRAGAADLDCHCHLGRCLLRCLVVA MNPDLRRERDSASFNPPELLTHTLDGSP KTRRRREIENMILNDPDFQHEDLNFLTR SQRYEVAVRKSAIMVKKMREFGIADPDE IMWFKNFVHRGRPEPLDLHLMFLPTLL HQATAEQQERFFMPAWNLAIEIGHFIAQ TEMG\HG\THLSRLSETTATYDPETQEFIL NSPTVTSIKWWPGGLGKTSNHAIVLAQL ITKGKCYGLHAFIVPIREIGHTHKLPGITV GDIGPKFGYDEIDNGYLKMDNHRIPREN MLMKYAQVKPDGTYVKPLSNKLTGT MVFVRSFLVGEAARALSKACTIGILYSA VRHHSEIKPGEPEPLILDFQTQQYKLFPL LATAYAFQFVGAYMKETYHRINEGIGQG DLSELPELHALTAGLKAFTSWTANTGIE ACRMACGGHGYSHCSGLPNIIYNFTPSC TFEGENTVMMLQTARFLMKSYDQVHSG KLVCGMVSYLNDLPSQRIQPQVAVWP TMVDIN\SPESL TEAYKLRAARLVEIAAK\N LQKEVIHRKSKEVAWNLTSDLVRAAS EAHCHYVVVKLFSEKLLKIQDKAIQAVL KE\SLCLLYSLYGVISQ\NAGDFLQGSIMT GP\QITPSNPAV*RELLTLIRSDAVLVDA FDFQDVTLGSVLGRYDGNVYENLFEW AK\NSPLEPKAEVHGIFTRHLEVHCQSQA LEVFTTRDKFKSGFQKAPVWQLQILWESF SNSNRL
1832	9883	A	2784	61	241	
1833	9884	A	2785	60	341	
1834	9885	A	2786	70	428	IGGPQGFSPTPSLKPRPRIFKTPPIRGNWG PRPPPGVSPQFQGGDTKFNLEILFVVL TFSV*AQSGDPAAPPRSGP/RPGGRGERE G*NEKSPVLPQCWGGWRHHPPSAALLW ALIW
1835	9886	A	2787	38	243	TPSTIDKSLTSLIKKK\KA*INNFRDKGN IAKDIPEM*KIIREYYENIHANTFENLGDI DKNKIDQN
1836	9887	A	2788	2	114	
1837	9888	C	2789	50	214	
1838	9889	A	279	403	933	QQRWQQGWWQAWGGQVPQEVGFWF LLSWLLSRLGVPAAQGPARGVDP RP GS RGARGGCSASAAPPARASPGRPCCWNG SRPPAQHRTSPATRVGEAGQGEVRGVR RLPAPLLQAVQPRLSDRSYPAAPARPTA TSP/APPPSPAPKAPIVGALS*GTADPGSD SYPPSRSHAPRP
1839	9890	A	2790	1	624	
1840	9891	A	2791	2	851	
1841	9892	A	2792	1	1116	
1842	9893	A	2793	53	1408	HRCCLWTFQCLSISLGITFLIKEGKEGKL EPAREGPYLVLLTTETAVLLISITPTSNS NPTLERFCGLGAEVTGKDPMGFFKVL RQ SLDADEGTAVDIQSFRPQKDFGRRRTLE ECHVTGKGGTGKMSNRVVCREASHAG SWYTASGPQLNAQLEGWLSQVQSTKRP ARAIAPHAGYTYCGSCAAHAYKQVDPS ITRRIFILGPSHHVPLSRCALSSVDIYRTP YDLRIDQKIYGELWKTGMFERMSLQTD DERSIEMHLPYTAKAMESHKDEFTIIPLL VGALSESKEQEFGLFSKYLADPSNLFV VSSDFCHWGQRFY\SY\YDESQGEIY*SI EHLDKMGMSIIEQLDPVSFSNYLKKYHN TICGRHPIGVLLNAITELQKNQ\MNMSFS FL\NYAQSSQC\RNWQDSSVSYAAWEHS RATEALNPQGCHLPHSSYSVRGSPA

1843	9894	A	2794	53	699	SLPSLTPPGSRQPPAGRLLNTEHHINEHIL MYSLDLNSSSQMPSSKAQTSDEIFEVD GEMPNHLLPIKAHVEDLGMDDDEGDDD PVPPLPNVNAAILKKVVIQWCT/HPHKDD PPPPEDDEEQRSVPDDIPVWDQGPVK FDQGTLF*NSFLGLQTYFRTSKGLLDVTC KTVCQYDQKGKLP*EIRKFPKSKMTFT EEEEAQVRK\EN\QWCEEK
1844	9895	A	2795	162	522	WVRRGTISPARQRQDGVGAAPANYAKV LEWQLAPSPRHKCQQRPGTHLGDSIGP LSPVGLPGLKG*PDNSSEGCPS/QALPVP SSPGHPGSGGPKGQARSLNCRGCPINW QHRCCRKI
1845	9896	A	2796	2	1214	QPFQSGCVIAILGRKMFSSVAHLARAN PFNTPHLQLVHDGLDLRSSSPGPTGKP RRPVRNLAAAAVEEQYSCDYSGRFFIL CGLGGHSCGTTH\ALVPLDLVKCRMK VDPQKYKGVFNFGFSVTLKEDGVVRGLA KGLAPTFLGYSMQGLCKFGFYEVFKVL YSNMLGEENTYLWRTSLYLAASASAEFF ADIALAPMEAAKVRIQTQPGYANT*EGI SFPKCIKEKGL\KAFYKGV\ALLWMRQIT YTMN*SSPCLERTV*SHCTSLGVKPRSE VCSKPEQTGCNHLVAGYIARVFCIVVSH PC*FVWYLVLNKE*SVAVSLLVFSVTL FKGVWKGFLFARINMIGTLTALQWFIYY SVKGYFRT/LPRPPPPRDGQSLNNKFGL TPVVRSKQIVD
1846	9897	A	2797	276	728	CFGFVFPWSWPYGPLSTGDVPKLGPPN* AMGGFRPGKPVVSLPGFAGGHACSPAS LPSQPGPAPRACLPSPRGGRKSLGAPGG FPPGDSHGAPCSRVTVSPGNDLKPGHS PRTLQRGGSLPGRRWVWSCGVVCPVW WPVLSASISGWI
1847	9898	A	2798	451	1030	VPEALSPFEMEGPQFPTMCCCSAPPAMP FPTT*QPSEAAAGQGVPGPHRL*GGLAP AGRS*APAGAFWQGPAQRGEPAYSSK GGAAASTQRVL*HRRGHRGDASRGCP GDQNLQ*KLCSSRAEGGAVSQPGWPAL PHAAGEPLASALPGLHAAQAPAPAVVSG PTTIRSCSGNSGKIFPSSCLDSCFPSS
1848	9899	A	2799	1	933	
1849	9900	A	28	1230	1820	QEYRPSQTPHLALSPERVAPGRRRAAGRL APEARAPRGSP/LPPHRVSEKTIRVVVFH PGARKAGGTPPRAPRGDTGGAPGA\PTY STPLMSLHRARLESSTGSSFPADSAKPV PLAVVSLDSR*GQWESRSSIHA\VTN*AS SSSSSSSSSF\SR\VPYPRFIEFLHFDIQTG Q/RITSRQHPPR/DLRDALF*LNSRIPL
1850	9901	B	280	73	207	ELGTQLRTCTTSLGLASQVEAHHSVLVS HLKTLLWKKISNTKYS*
1851	9902	A	2800	1	1563	MRREGFKFSRSKVQDEMTEKKWHKSD LHWVSRIQCTVLGVLTNATEMRSLLPIES LFLIQCFVVSAGSRNEATDCSGECYSSM RETRGSKECAAARFIKVKGVQLQKVESY KLYHPYFLANWFSASF\KVGKLVEMRG QEEETLGTFAHVL\MFQAASSRALVLPPT MQLELQNFNTCSYRKPNMASSMRSLF SDHGKYVESFRFLNHSTEHQCMQEFM DKKLP\GIGRIGDTKSEIKLASIGVGAGEI DLQILSKVQAQYPGV\CIQH*SCLRPSAG TNWPNYKELVAKTSNLENVKFAWHKE TSSEYQSRMLGEKGAFKSWDFYSI*FKM LYYVKDIPATLKFFHSL\LG\TNAKMLIIV CVQGS\GW\DKLWKKYGS\RFQ\DDLC QYITSDDLTQMLDNLGLKYECYD\LLSTM DISDCFIDGNENGDLLWDFLTETCNFNA VTAPPDLR\AELGKDL\QEPEFS\ALRKEG KVLFNNTLSFIVIEGITIQSQKYIQKLYFE

						QLESLIYFHIKITNSSH
1852	9903	A	2801	1	6750	
1853	9904	A	2802	3	91	KKNIN*EILN*KQMEPTLYVGNFPIQLT
1854	9905	A	2803	3	7501	
1855	9906	A	2804	3	3223	PPPEAAVVAFEWLKTSTLTGLHPQLPLSL PQPECALPYLVRAFSRGDYMGRIQEVG WVTAGLVIWAGTCYIYKFTKGRAQSV RTLARNGSTVKMETVVGVQSQTLAINEA EIKTKPQVEIGAETGARSGPRAEVETKAT AIAHRANSQAKAMVGAEPETQSESKVV AGTLVMTEAVTLTEVKAKAREVAMKEA VTQTD AEGKIVKKEAVTQTKAKAWAL VAKTEAKREAMTQTKAETHILAEKETEI NRVMV
1856	9907	A	2805	1	374	NYFLSLRFDWHSSKS*GHPTCVHCF*/TK NE/CASCHCGAGLLGFLGSGEGASHPC PSCLPLEYRSLHCSLGHCGECMPGASGW GPWTGPGHCPNLCQDKGSKRISWRVGR NGWGRPSFDNAPVAL
1857	9908	A	2806	162	789	AGQNGVSGSAERCLSCLLIPLALWSIENI LLYIPNGHTFYASSNKLTNYVWYSERI*L SGIMMLIVTTVLLVLENNNNYKCCQSE NCSKKYVTLLSIIFSSLGIAFSGYCLVISA LGSCP*AIC/LAPLMGWGVCF*RALLGRF LTDS\SIWDSVPGNLAHVVEWNILFSILIT LSGVQVHICLIRVVMQLSKILCGSYSVIF QPGII
1858	9909	A	2807	1	3282	
1859	9910	A	2808	136	447	
1860	9911	A	2809	3	3593	SSDPRPSSFVLVWVGLWSMVWRVPPFL LPILFLASHVGAADVLTLLANLRLTDPQR FFLTCVSGEAGAGRGSDAWGPPLLEKD DRIVRTPPGPPLRLARNGSHQVTLRGFSK PSDLVGVFSCVGGAGARRTRVIYVHNSP GAHLLPDKVTHTVNKGDTAVLSARVHK EKQTDVIWKSNGSYFYTLDWHEAQDGR FLLQLPNVQPPSSGIYSATYLEASPLGSA FFRLIVRGCGAGR WPGCTKECPGLHG GVC
1861	9912	A	281	276	565	WTSSVSTGQSDQA/GPAPALIQMQRPGC GPSVPVGGWLE*RDGQAGMGAAAAPA WVLLCIPAGQGPLPGPRLPFHIPILKFCYC GILVEKKEPRGCF
1862	9913	B	2810	85	283	MEKTELIRRSAWRVISSIEQKTDTSDDKLL QLIKDYREKVESELRSICTTVLELLDKYLI ANATNPEX*

1863	9914	A	2811	1	932	KAKSRSKEVGLASRP RRRGSSRGSSRCG SALALALLALRPGPGGPAPAMEKTELI QKAKLAEQAES/R YDDMATCMKAVTEQ GA/QSL SNEERNLLS VAYKNVVGRRS A\WRVISKHPSRKTDTS DK\KLQLIKDYR EKVD\SE\LR S\CTTVLGICLDKYF\LANG NLIPESK\VFYL\KMKG*FTRVYLCLEVA CC\DDR K\QTIDN\SQGAYQEAFDISKKE MQPT\HPIRLGALLTFSVFYIEILNNPE ACLHAWLKTA F*WRAIA*LDTLNEUDSY KDST\IMQLLRDNLPLWTS DSAGEECD AAEGAEN
1864	9915	A	2812	199	214	PPSPLNSSTCCLAKTDEK*CKEKGSHLLH
1865	9916	A	2813	1	2176	QGPKLFMDAGIEFSDQDEWKCLDPAQRT LYRDVMLENYRNLVSLGICLPDLSVTSM IEQKRDPWTLQSEEKIANDPDGRECIKGV NTERSSKLGSNAGNKPCKNQLGFTFQLH LSDLQLFQAERKISGCKHFEKPVSDNSSV SPLEKISSSVKSHLLNKYRNNFDHAPLLP QEQKAHIREKAYKCNEHGQVFRASASLT NQVIHNADNPYKCECGKVFSCSSKLV HRRMHTGEKPYKCHECGKLFSSNSNLSQ HQRIHTGEKPYKCHECDKVFRSSSKLAQ HQRIHTGEKPYKCHECDKVFNQIAHLVR HQKIHTGEKPYSCNKC GKVF SRHSYLA E HQT VHTGEKPYKCEECGKA FSVRSSLIT HQLIHTGRKPYKCECDKVFGKCF L TS HQRIHTRERPYGCSQCGKIFS QKSDLA *R HRKTHTDEKPYNGNKC GTAFREFSDLT A HFLIHSGEKPYECKE CGKVFRYKSSLTSH HRIHTGEKPYQM/CNRCGKVFSRSSNLV CHQKIHTGEKPYKCNQCGKVFNQASYL TRHQIHTGERPYRCSKCGKA FRGCSGLT AHLAIHTEKKSHECKE CGKIFTQKSSLTN HHRIHIGEKPYKCTLCS*GLSVTILTLHSF RGFHHEGPKYKLC/DGKTIIMSSSINQHQ* VHTKWKSYK*NVC DTGFIKACQITGHHH ITVEDESTQMNCVYLGYY SRTIAIEHDRI YTRSNSVSGSLILIYDIA
1866	9917	A	2816	26	736	EPIPVTPDHRLVTMTHIVANLLSCQQRPR LPNYEMLKEEQEVAK\LGAPQKPCLP EC PPVIHMRNEXTSWPDHVRLVPVQHPLHE HLLRLGFIRFAYSVKSLRDRKMVG EVN RGPKA*CLHRQSA*KIWGPDFG\HLHEPI LAHQSSPPKFWVVPGAINDREASL R PG ALPVTC\NPRTLASSIPRAPRGQEVLP L TCI PLTPPSIPRPVPTAES CISP LSSHAF LQWH SIKCICFW
1867	9918	A	2817	748	1637	DIMESGFTSKD TYLSHFNPRDYLEKYYK FGSR\HSAESQILKHL\KNLFK\VFCL\DG VEGETCLNDIGFWAPLILSSSSSCFVESF* GRIVRSLDYFR TQEPGRELGRKW\LEGKE ARGLFDWVPPMVTPMCLNLERETE VKG PRRRRK LK\QAVKARCLKM*M* TQKPS HLGAVPLPPG*TAVPQAHLCLGCPPCPR PPQPTCKGASGTLGQPYLKPRGPSLVIM DAAQE QPTYMIGEQKFS\SLP\LGREAVK AAVKEAGYTIEWFEVISQSYSS TMAN N EGLFSLVARKLSRPL

1868	9919	A	2818	1	1538	MENPIVKSLAKARERLEDSKLEAVSDNN LELVNEILEDITPLINV DENVAELVGILKE PHFQSLLEAHDIVASKCYDSPSPSPMNN SSINNQLLPVDAILRILGIHKRAGEPLGVTF RVENNDLVIARILHGGMIDRQGLLHVGD IIEVNGHEVGNNPKELQELLKNISGSVT LKILPSYRDTITPQQVFVKCHFDYNPYND NLIPCKEAGLKFSKGEILQIVNREDPNW WQASHVKEGGSAGLIPSQFLEEKRAKAFV RRDWDNSGPFCTISSKKKKKMMYLT RNAEFDREHIEIYEEVAKMPPFQRKTLV LIGAQQVGRSLKNRFIVLNPTRFGTTVP FTSRKPREDEKDGQAYKFVSRSEMEADI KAGKYLEHGEYEGNLYGTKIDSILEVVQ TGRTCILDVNPQALKVLR TSEFMPYVFI AAPELET LRAMHKAVVDAGITTKLLTDS DLKKTVD ESARIQRAYNH YFDLIINDNL DKAFEKLQTAEKLRMEPQWVPISWVY
1869	9920	A	2819	1	1749	EFVLNYPEPRVCRWGCSAAPVAEGEQR RGATGSGSGGAEAAEVRAAMQQVLEN LTELPSSTGAEEIDLIFLK GIMENPIVKS AKAHERLEDSKLEAVSDNNLELVNEILE DITPLINV DENVAELVGILKEPHFQSLLE AHDIVASKCYDSPSPSPMNNSSINNQLL PVDAILRILGIHKRAGEPLGVTF RVENNDL VIARILHGGMIDRQGLLHVGD IIEVNGH EVGNNPKELQELLKNISGSVT LKILPSYR DTITPQQVFVKCHFDYNPYNDNLIPCKE AGLKFSKGEILQIVNREDPNWWQASHV KEGGSAGLIPSQFLEEKRAKAFVRRDWDN SGDELDTIKFDRHEIYEEVAKMPPFQR KTLVLIGAQQVGRSLKNRFIVLNPTRFG TTVPFTSRKPREDEKDGQAYKFVSRSEM KADIRAGKYLEHGEYEGNLYGTKIDSIL EVVQTGRTCILDVNPQALKVLR TSEFMP YVVFIAAPELET LRAMHKA VVDAGIHH PRL*PNSDLKKTVD ESARIQRAYNH YFD LDPSINDNPRPKPF EKLTAEKPENGPP QWVPQSAWVYLMIQ
1870	9921	A	282	1466	2353	RNVHLNLLIHFIYFKINVFHIDFPLGGEK NSGVLGFQAVQKQPRGSFFLPRIPQ*QN LRIGI*KGRRGPGSGPWPAGDTQQHPSK GKGLPPLPACPSL**QQGRRCSGPGGRL GS*GCKHPECQWSQRGVRPLSVPLFQVP PGTGAGPTSWASASGSGAGACQPGS/PL GSVHTGSPSQAKSPSRVK*QECQHPTH VSSPVSRRPFGPKLPG\GNRAGPAAPSPP RDTPAAPPPRPGPPSGSLAQDAPGRSLP PPRTRRPAAQSPRPRSA SEEAARRGPVR RSRTGREEKSG
1871	9922	A	2820	14	230	FATLYPLKIFIPKAFNPWREVGLCPPPK /CKGSPKSPGW/CLNRPPIGKKLIPCKPR LTWAPPRIL*NGPP
1872	9923	A	2821	170	303	RPLRGTPC*CAAWASSWWGCCSACCSH CCLLGPCWHSGPCSA*WAFWCSSG
1873	9924	A	2822	208	547	AAPGAMGPWPDRLCGSALPSCRLPCYSS ASVSLRCAAENTFTQAGPCCWAWPHRA HQDFPLQIPFRHLEAPRCSPPLSAWPPRH LLPAGDPDLQEQPPGIRGAP*RPLRGTPC CGSVCGVAAGVRGCGPVWL*HPEPADSH TATAEPRI*AAPGAMGPWPDRLCGSALP SCRLPCYSSASVSLRCAAENTFTQAGPC CWA WPHRAHQDFPLQIPFRHLEAPRCSP PLSAWPPRHLLPAGDPDLQEQPPGIRGAP LSLRRRLLL
1874	9925	C	2823	48	173	MVRKRMEMKMRKLSQLRASGQLKMM RMXMSIPSRPRGIX*
1875	9926	A	2824	183	423	

1876	9927	A	2825	147	588	TLAFFLIPCIGSPACPTMSDAA\WDTSSSEIT TKD\LEKKEV\VEEAENG\REDRPCLTG NAENEVNG\VEEA*QLR*DEE\EREGRLG REGGREGRKEG*LVEEEDGRLKIEEAES ATGKRATE\DDDDDCRYQSRRPDEDD LDSKKAKS
1877	9928	A	2826	1	77	SGRPFFFFFFF*CKGFLIGYM
1878	9929	C	2827	175	351	MKLIQLSCQPFNSRHHVLLKKPLTFMILS HFQASLSSIFGFCSSLFRQSSFFSNILFF*
1879	9930	A	2828	56	380	KYLVLDQHAGSPPVKNILAEAVQNIQIL H*EIQKSVNHRYML*KLDTDSL**FIIQLQ \EPTILGIKVDVYKHEYKDKDGHSDFSNY SSHQVFFLFLIFNKDNMAIN
1880	9931	A	2829	3	129	
1881	9932	A	283	134	385	CQIMDGMLAIQAWPTPQQVASNGTGLN PNAKVWQEIAPGN\IDATPVTHGTSSW HEIAATSGAHPEGNAEPQKIYVKNMK*C I
1882	9933	A	2830	472	756	SSADSKCTLTIGKPAKSRVQLCHKEETFP NQTNAVRTCVD*CLMSPTLLGTSIF*SQ MIIRVVPICMPNIFLIISC*VLCIRKPVSEL PHLLGF
1883	9934	A	2831	1	170	
1884	9935	A	2832	1243	5595	
1885	9936	B	2833	2177	3174	MGKTTPMIQSRPSFDTWELQVPPSTCGD YNSSFIKELRASQSNVIKPPGPVKLKESV VENHAVLSYAVEEEHAYLGPTVKPDDK AKTLSYEPLSSATVSTGSLLSYENTDLSL TDPESEHMDSDSKQUESTTSKEEETNISS IVPSTQDIYQRQNSSDVHKSLLPAVDETT CGHTHFQQMIDKALYQSGKPETGHGIME EPELTLISTDTSIAEMDFANLTLEEKSEN EAKCFFQSKTRLKRLKRVKHATFLPLA TEASDYPVSELSEIKPRTASTETPRRLTP VPGSLQEAFIGKRSKFMERSHORQKEIR NKIHVSENSQIKTVKEKPSISSL*
1886	9937	A	2834	2268	2547	KYLVLDQHAGSPPGKSLCCLEKSQORMMM ISQNLDVVLRV*TADDAN*EKCVPIANL FFQVSNLLH*VLVYHLLKVCVTTCSEFIH CRQQRFMNV
1887	9938	A	2835	137	716	TTMSSKKAKTKTTKKRP\QRATSNVFA MFDQ\SIQGVQRGPFNMIDQNRDGFHS DK/EKVLHDMLA\SLGKNPH*WHYLD M\MMNEAPGPIQFSPCFL\TLFG*GSLNGHQ IP*RCSEFRKRLAFALDE\ATGHPFREDYL /REELLTNPWGDRVYQIEEVG*TCTGEAP I*QKGGNSNYHRSFTRHPNWKAPKAQR
1888	9939	A	2836	2	437	LVIIESDLERAERAELSEGKSDSWKNN* E*WIRP*KH*WLQISKCAELEELKTVT NNLKSLEAQAEKYSQKEDRYEEIKVLS DKLKEAETRAEFAERSVTKLEKSIDDLE DKFLCFTSPKTPSSSWMSHLSELICLFSS
1889	9940	A	2837	1	834	GSRVRRAAAGLSHCSPPARLPSGAMAGS SSLEAARRKIRSLQEADAAEERAGTLQ RELDHERKLRETAEA\DVASLNRRIQAW FEEFVGFPKERLATAF\QKLAEAEKAA DESERGMKVIES\RAQKDEEKMEIQEIQL KEAKHIAVEDADRYEEVARKLVIIESDL ERAERAELSEG\QVRQLEEQLRIMSDL KALMAAEDKYSQKEDRYEEIKVLSK LKEAETRAEFAERSVTKLEKSIDDLEEKV AHAKEENLSMHQMLDQITLLELNNM

1890	9941	A	2838	9	1108	PDRATRPRPRARPADPALVLGPLAAVTM GAGKKKMRMLKLDKENALDRAEQAEA DKKAAEDRSKQLEDELVSQKKLKGTD R*TGQIL*RLSKMPKEETWNWQEKKATD AEAD\VASLNR\RIQLVEEELDRAQERLA TAL\QKLEEAKEAADE\SERGMKVIES\RA QKDEEKMEIQEIP*TKRAKHIAEDADRK\ YEEVARKLVIIESD\LEPCRGSGAELSEK CAEA*KEEFENL*PNNFEVHLEGSRLRK YSQKERPDMEEEKGPPFDKA*RRLETR AWSFAERSVT*NLEKSIDD\LEDRAVTL QETEVQSHQRRSWDHALNGYDFHISFFA SLLPRLPRRSWMSHLSELFHLSYSPADPG SLS
1891	9942	A	2839	3	268	
1892	9943	A	284	305	1129	DICKEYEVMYSSSCETTRNTTGIEESTDG MILRPEDLSYQIYDVSGESNSAVSTEDLK ECLKKQLEFCFSREKLSKDLYLISQRDSD QFIPIWTAANMEEIKKLTDPDLILEALRS SPMVQVDEKGEKVRPTHKRCIVILREIPE TTPIEEVKGLFKSEYCPKVISCEFAHNSD WYITFQSDTDAQAFKYLKKEVVKQFKA RPILAGIKAINTFFC*EWSSNNGILESIVHP I*TAQAYASPVFMQPVYNPHQQYSVYSI VPQSWVSKSYTLL
1893	9944	A	2840	500	682	
1894	9945	A	2841	1617	2086	GLAASSRKHQMVDADAVGGPGGPGM AGCDGLPGFGSDIRPRLWLWLGPRLW SS*RGTNILASVPKKLLM/DCYALARD RTATLG\TFDAISKASNWIPDLWKETVF TKFPYQEFTHDL/VKTHTRVSKQKTQVP AVATTAARQTMEGQAPVEYI
1895	9946	A	2842	55	665	AMAEDHGLSNGDGPVEVTQGLELLVSA AAQDIVLLDGIQGLFLTQLQFDNIWVWDH FLGKLPHRVFKGGGEKQHLAVPGQHPL DADALILVALSGYHDISLQNKHLDFLGI NEL\DLHQSSSTVPGVPMTICSLIFWPLSN LLPRTA*ASFSSG*NLPICSITFPV*SASSY VGERHRHWGYLSDGSTRLSMAKTKAA VLPVPD
1896	9947	A	2843	43	548	
1897	9948	A	2844	1	876	
1898	9949	A	2845	222	482	
1899	9950	A	2846	3	218	SLFQLKTTKTQSRVMGAIYDSSWFQEDR QAAERFTDRSTHLRLRNAEAAA*TKPAQ GPGSIPILPATPSSL
1900	9951	A	2847	322	452	LCCSI*YILN/NLLIC*QSFSVLK*DFRVD* KKKNPRMSHRVLNI
1901	9952	A	2848	3578	5288	TESREHFSPWYSVTAARRPQVASKAEEN LLMVLGTDMSDRRAAVIFADTLTLLFEG IARIVETHQPIVETYYGPRLYTLIKYLQ VECDRQVEKVVDKFIKQRDYHQFRHV QNNLMRNSTTEKIEPRELDPILTEVTLMN ARSELYLRFLKKRISSDFEVDMSMVS*E VKQEHQKCLDKLLN*LAFLSCYHGRELI GLYVTMEEYFMRETVNKAVALDTEYKG QLTSSMVDDVFYIVKKCIGRALSSSSIDC LCAMINLATTELESDFRDVLCNKLRMGF PATTFQDIQGVTSAVNIMHSSLQOGKF DTKGIESTDEAKMSFLVTLNNVEVCSENI STLKKTLES DCTKLFSQGIGGEIQAQAKF DSCLSDLA AVSNKFRDLLQEGLTELNST AIKPQVQAWINSFFSVFHNEEEEFNDYE ANDPWVQQFILNLEQQMAEFKASLSPVI YDSLTLGMLTSLVA\VELEKVVLKSTFNR LGGLQFDKELRSL\IAYLTTVTW\TIRDK FARLSQMATIL\NLERVTEILDYWGPN GPALTWRLTPAEVRQVLALRIDFRSEDIK

						KAALVS
1902	9953	A	2849	233	801	VVTLTGSNLYFYCSLFIFSVLPDQDVSLV *ICYLSLPLDIVCFCNVKIQFFFLSLESYY *FLTIFPHCFYFLLKTPFKHRELFILVFGL LKIFQ/LC*FFYLILLLRFYFINFCFLDLF LFWIFIWYFVIFACSWFIGVSLKFLLVPL/ CSFFLRCRHSPLF*GAS*TDLYILGCIPFP* VCLLWEFCGGL
1903	9954	A	285	1053	1403	TFTQDSAGSLVVHSPMTSIWKTAESVDQ GHFPIIILFVYLLFETGSHSVTHATMQW CDHSSLQPQTP/SGSGDPPTLAC*VPGIIG MCHHTWLIFTPFAETGSHHVPRLVSNP LA
1904	9955	A	2850	170	494	
1905	9956	A	2851	70	1474	RESGTWQPGKAGTQTGAKFWEVISDEH GIDPTGTYHGSDLQLERINVYYNEATG GKYVPRAVLVDLEPGTMDSVRSGPFGQI FRPDNFVFGQSGAGNNWAKGHYTEGAE LVDFVL/DV*RKEA/ES*DCLAQGFQLTHS LGGGTGSGMGTLISKIREEYPDRIMNTF SVVPSPKVSDTVVEPYNAILSGHQLVEN TDETYCIDNEALYDICFKTLKLATTPPF DLNHLVSATMSGVTTCLARFPGQLNADL RKVAVNMVPPARLHFFMGGFAPTDQA GASQASTRALTVPRSSPKQ/MFDA\KNM MAACDPRAWAAYLDGLPPCFRGPHVPL KEYDE\QML\NVQKQKQPAIFVE\WIPQQ CEKRAVCDIPHLRGLKNVRPPSFGKQAR PIPGAFSKPHLPKQFHGPCFRRKALPSFIT GEGMDEME\EFHPRPESNKND\LVSEYQ/ QY\QDATAEEVEGEFEGRSLGRKVA
1906	9957	A	2852	284	359	QQEANPSAPLQHVSTSN/CVLTCKGA EGLASCCYCHCLCNECCQGACGPDTHL AHCCRCQHSSKPPGGPRI/ASTQTCYY*C PCRLPGGSRT*CLASCPYHWPWTSLPG SPVPNKAPP
1907	9958	A	2853	295	478	
1908	9959	A	2854	1	1167	

1909	9960	A	2855	3	1328	SGILGTTTSPFPVGVVLRVECPLCPGPAP MSVPAFIDISEEDQAAELRAYLKSKGAE ISEENSEGGLHVDLAQHEACDVCLKEDD KDVESVMNSVVSLLLILAEFDKQAEALIE SLCAEKLGNFREGEPRLRLQFVKATF STGMD*EILPVKIHVSICSLAKVAAASCGA AIQYHPQLEPGIKFRKWDFLNWNLTG KKSTPLLKTTFMKALVDCKKSDAASKG MVELLGSYPGGQCFPRARVDAHR(CIV RALKDPNAPFPD\HLLTLKPRQVFWKGE LI/HIVPF*PNFVSA*MGHHMSRFYPD*LR TFH*IPLGPVTMDPGIWPKMRLFLWLG MGQ*ENRAISFWTTPARNFRIGA\DDV EAFVIDAGKELKMVYCQNWSRPORKVV VSHSTHR\TFGK\QQWQQTV\YDTLNAW KQNLNK\VKNSLLSPSGYLKFLCL
1910	9961	A	2856	377	2393	FSLECLGHENR*D*ITIYKITS LGTGKVFN KIQHPFTIKNKK*KTLNKLIEGNFLNLK GIYEPMVSILNGEGLDYFPLRSETRQG CLLWPFLLN\IVLDSQERAIRQENKIKVI* VGKEEV*LNR\MGDDMVVLCIVIQGKI* KIQRHDLLINKFSKV\TGRI\NICRKLVI HI*YQLNKSQNDVKKTI*FSTMVKLGGL C/RVIPTLWESEAERLLEARRPAWETVRS HLYKNKQTKNNKQTKN\TLDVMTLICRL SYSEAEV*GWLEPQSSKLQ*AITGSLQSS LDRQS*TLTQKKTKKKRKLKTASERVKY QYN*GSRNID\PHLSSN*LLENSA*GQFQ WGGKIVFFIK*CLETWISTWQNNGNWDS YLILHIKINSELT*DLNVRANIVSIFKEN/M GVNLSDFELGNDFLNK*/PLKTQATKEEN R*IKIKTICVSKDNIKKAKIQPTE*DNFF*N HVLVKGIGICI*NM*RTVTIHKRHIIQFLKI QQGVWN*QFSKGGYTKGPLRHMEKVSQ PSLAIREMQMRSTMRVH\TLPLE*IYNQS DNIKCW*GCREIGTLMHCWW\YPRDIKT NVYTKTCAQMFLPALFI*AQK*NGP*FLS \LTSALTKTWHIHT\MEYYSSQ*KKEMKV LIWPPTTMEKPLEKPYPSEECPRHERPTY YMISIYMKCPRTGEYI
1911	9962	A	2857	3	445	GEFADSF/SSMGSPVNAQDFCTDLAVSSA NFIPTVTAISTSPDLQWLVPALVSSVAP SQTRAPHFPGVPAPSSGAYS RAGVVKTM TGGRAQSIGRRGKVEQETDQLEDEKSAL QTEIANLLKEKEKLEFILAAHRPACKNPD DLGFPE
1912	9963	A	2858	295	1622	DEMSVAGSFLFTAACGTGNSPHLCPEHA RSRRLSPSVLF*DFCTDLAVSSANFIPTVT AISTSPDLQWLVPALVSSVAPSQTRAP HPFGVPAPSAGAYS RAGVVKTM\TGGRA QSIWQEGARWEQVRNF*RTLPGNVGAG WEAAPEMQEPSTEDEAT*WGLLAHP*LG ALAPSPFHPNSDSEFSP*EVLS*FLP*VSY RMLSDWALLCSLAEDLILNASHT*SATA GQKWFHSGVPGSREAAGASSTGVGEWR *WQTLNLLNVGLFL*LF*LSPEEEKRRIRR ERNKMAAAKCRNRRLRELDTLQAGRYS VGCSFLKLKGKVGRLHKG*VRLCLYA FPLSLCIQ\ETDQLEDEKSALQTEIANLLK EKEKLEFILAAHRPCLARFPDGPAGFPE EMSVASLDLTGGLPEVA\TPESEAF\TLP LLNDPEPKPSVEPVKASA

1913	9964	A	2859	3	1467	PHLQRATEKPRLSRRPRRSEAVTVLLPS SASQRPPVSAPRPLARLCLTATMMFSGF NADYEASSSRCSSASPARD\SLSYHSPA D\SSFSMGSPVNAQDFCTDLAVSSANFIP TVTAISTSPDL\QWLVQPALVS\SLWAPS QTRAPSTFSESPPTAGAYSRAGVVKTM TGGRAQSIG\RRGKVEQLS\PEEEEEKRRIR R\ERN\KMAAAK\RN\RR\ELDTLQA\ ETDQLED\RK\SALQTEIANLLKEKEKLEF/ LSLAAHR\PA\CKIPLIDLGLPRKE\MSVGS LDLTGGLPEGS\TPE\SEEAF\TLP\LLNDPE AQGPQWEPVQGGISRHGS*KDRGPFDDF LFPSIHPGSPGFLRTARSV\PDMGPILGPF YGRQIRGAFSHSGSLGMGAHGHRGWEP LCTPVVTC\TPSCNCLHVFPFHLPRG*LL PQLCSCPPQGGQQQ*AFL*LAQLTHAAG PVRGQGRGGSRHPQVPLPELVHYREEKH IFPRGFL
1914	9965	A	286	259	506	PGYRRGHGGAEEGRQEPAARHNPAVRE DADGGD\RPRSAACPGTSTAPPGT*GS\G QAHRDGARPAAPRPSHPSAGPAAGPSG
1915	9966	B	2860	1	196	MAEGNHRKKPLKVLES LGKDFLTGVLD NLVEQNVNLNWKEEEKKKYYDAKTEDK VRVMADSMQEKQX*
1916	9967	A	2861	1	988	MGSLEGNHRKKPLKVLES LGKDFLTGVLD DNLVEQNVNLNWKEEEKKKYYDAKTED KVRVMADSMQEKQRMAGQMLLQTFN IDQISPNKKAHPNMEAGPPESGESTDALK LCPHEEFLRLCKERAEEIYPIKERNRTR LALIICNTEFDHLPPRNGADFDITGMKEL LEGLDYSVDVEENLTARDMESALRAFAT RPEHKSSDSTFLVLM SHGILEGICGTVHD EKKPDVLLYDTIFQIFNNRNCLSLKDKPK VIIVQACRGANRGELWVRDSPASLEVAS SQSENLEEDAVYKTHVEKDFIAFCSTP KYSWCCHLEEVFRKHCSQ
1917	9968	A	2862	12	914	GSFQRCKKGQRLFPMAEGNHRKKPLKV LES LGKDFLTGVLDNLVEQNVNLNWKEE EKKKKYYDAKTEDKVRVMADSMQEKQR MAGQMLLQTFNIDQISPNKKR**IGVTE AEITTYVLQYPAHPNMEA\GPPEGRIL PDCLK\LCPH\EEFLRLCKERAEEIYPIKER NNRTRLALIICNTEFDHLPPRNGADFDIT GMKELLEGLDYSVDVEENLTARDMES ALRAFATRPEHKSSDSTFLVLM SHGILEG ICGTVHDEKKPDVLLYDTIFQIFNNRNCL SLKDKPKVIIVQACRGEC
1918	9969	A	2863	12	1353	GSFQRCKKGQRLFPMAEGNHRKKPLKV LES LGKDFLTGVLDNLVEQNVNLNWKEE EKKKKYYDAKTEDKVRVMADSMQEKQR RMAGQMLLQTFNIDQISPNKKKAHPIM EAGPPESGESTDALTLCPHEEFLRLC*RK ELKEIYPIKGRRKQPHTAGLFFCITEFDH LPPRNGADFDITGMKELLEGLWDYSV GVGRRFLTARGMDSALRAFATRPEHKS SDSTFLVLM SHGILEGICGTVHDEKKPD VLLYDTIFQIFNNRNLPQV*RDKPQGSSI VQACRGANPSGN*WVRDSPASLGKW PSSQSSGEPWRKDAV*QDPHV/ERRDFIG FPGSFKRPHNRAPWERPAQWGSIFITQLI TCLPRNIPWCC/HTLEEVFRKGTAIHLETP R\AKAQMP\TIERTVR*QGYFYLPGEFE NWEHGKQPSPSLNPTFKEAPFFVTACIF
1919	9970	A	2864	66	392	
1920	9971	A	2865	131	551	KIRGVSCPSAPKSGEQTGQHNNINTGFHP LPLGAVTSPVPQGPGRDLCPPPSSPEPAQ PAQ/C*PCSDSGRSPGPGKAWTVAPC\ PEPSVFLQSPGFEPWVLAHPSSERR ASSSGLDDDLPAQETGNGSGATRTCS

1921	9972	A	2866	943	1109	LMVLSDFIFKLKI/WPGAVAHACNLSTLG GRGRWIT*GQQFETSPASIVKPPSLLKI
1922	9973	A	2867	112	1078	ESSRQALLAKPLSACAEQPARAEVGAAT ALPVRWASGEMAPSGSLAGPLAALVLV LWGAPWTHGRR\TNVRVITDENWRELL EGDWMIEFYAPWCPACQNLQPEWESFA E\WGEDLE\VNIAKVDVTK\QPGL\SGRFII TALPTIYH\CKDGEF*AVIQGPRTKKDFI NFISDKEWKSIEPVSSWFGPGSVLMSSMS ALFQLSMWIRTCHNYFIEDLGLPVWGSY TVFALATLFSGLLLGLCMIFVADCLCPK RRRPQYPYPYPSKKLLSESAQPLKKVEEE QEADEEDVSEEEAESKEGTNKDFPQNAI RQRSLGPSLATDKS
1923	9974	A	2868	1	448	
1924	9975	A	2869	1	536	
1925	9976	A	287	1	2072	FRRSPSPA\AVSLGLGV\VVSSLVNGSTF VLQKKGIVRAKRRGTSYLTDIVWWAGTI AMAVGQIGNFLAYTAVPTVLVTPLGAL GVPPGSLASYLLKEKLNILGKVGCLLSC AGSVVLIHSPKSESVTTHAELEEKLDQS RVGGLPCASLLVMLAAHLLDPCRPMG PPTSWSTSASAPCWADTPCLPPRASGWR PKTSCITTRPVREPSACAWYSWPCSAAA SSSSSGTRNKALECFDSSVFGAIYYVFT TLVLLASAILFREWSNVGLVDFLGMACG FTTVSVGIVLMRVFKEFNFLGEMNKS DTWRQSSPLIVAPRDHFHLERG\VFQNM NSVMGSHLVMVALSPGVDFIPQDDPAA LLVTELFANRLVSGYAPATGLQGTILQY GNTLMEVMPKICRLPRHECGSPGP\PGSC APPPSPHSTR\RRPPRSAD\CGPCKGTGTR RERAPGAG*AEAAGPGE\GGVGAANA GAGAADAGAGGADAGAGGAGAGAGG AGAGAGGAGAGAGGAGAGAGAGAGAG AGGAGAGAGGAGAGAGGAGAGAGAGGA GAGAGAGAGAGAGGAGAGAGGAGAGA GGAGAGAGGAGAGAGGAGAGAGAGGAG AGAGGAGAGAGGAGAGAGGAGAGAGAG RAGAGAGGAGAGAGGACAGAGGAGAGAG AGGAGAGAGGPVAGAGGAVCSQTIFTR SHGGLHLWRPC
1926	9977	A	2870	1	5193	
1927	9978	A	2871	1	356	
1928	9979	A	2872	1	401	
1929	9980	A	2873	151	5459	AGARRRGRGGEAPLLPGLAAAEPPRAR PDGLAEP\VRGRRV\GSGPRGTMSAKVR LKKLEQ\LLADGPWRNESALS\VELLDV LVCLYTECSHSALRRDKYVAEFLEWAK PFTQLVKEMQLHREDFEI\K\VIGRGAFGE VAVVKMK\NTERIYAMKILNKWEM\KLR AETACF\REN\RDVLVNGDCQ\WITALHY AFQDENHLYLVMDYYVGGDLLTLLSKF EDKLPEDMARFYIGEMVL\AIDPIHQLHY VHRDIK
1930	9981	A	2874	1	764	MEKIPILRSLRAREQQAGKDVTLQGEHQ HLPEPGCQQT\PLSVGRRPPDTPGPETNS MEAAPGSPPGEGCPACSRCLRWEP\PPGR PCE*PEESPAGT/PAPCPGSPG\GPAAQS LPPLPG\PLQPSPRSPA\SGPAPGHRHPEG GAGQAAEQ\GPRGQPRSSLQTS\PRPL AAPVPM\PRGLAWQDVSEPP\PGCSGL NSSQKSPLSERPGPPVSGEA\GP\DGSSHS AQLQPPNRAGSGLESVSVSLEGQSRGA RD

1931	9982	A	2875	1	1641	MKVCSSIAEVSDTTNPPSRTNSGHMTSV LKQALKDPCRTTRHYRLVLWTLERTEVL DLFIERFCMTGGNSPICYLKAYHTNLYLS ADAEKVREAIDEGIAAATIFSPSRDVVVS QSQRVAFDGDAVLFSDESERIVKATLD RFFEHEKAHENKPLAQEQGSTSPDKVE AFRSPSVPLPITGHSANVYQTPTCARRRT TRPLVNWELIPRDNPPPLPRQAFRDLGQS PAFSDAVATTSAPVFGGDCHLSEVRGAE TRQPAFAMKRKPEPSGSDGESDGPIDVG QEQQLRSSKLEKAEVLQMTVDHLKMLH ATGGTGFFDARALAVDFRSIGFRECLTE VIRTPTIWLLPGRSKAVESQSQQFTGAHS TLGEPTAKK\A*SNPQVYMDIKIGNKPAG CIQTLRSDVVPMTTENFLYMCTH/SKGL GFKGSSFHRIIPQFICQGSDFTNHGGTRG KSIYKKKFDDENFIFKHTGPGLRRHGTK CPMAHLALMEASKGQDQHPLLRKERA QQVHDVVKLTRGRGRGISLKRIARSLCK DKETGLCTLTWH
1932	9983	A	2876	1	949	
1933	9984	A	2877	185	339	
1934	9985	A	2878	673	1085	GEPTAKK\A*SNPQVYMDIKIGNKPAGCI QTLRSDVVPMTTENFLYMCTH/SKGLG FKGSSFHRIIPQFICQGSDFTNHGGHQGS AQVHGTKCPMAQFGPHGGLKRAGPAPSS TGKERAQQKQGESAITSQPRSWKLT
1935	9986	A	2879	141	1959	PRPANLLKKGQITMSATVVDAVNAAP LSGSKEMSLEEPKMTREDWRKKKELE EQQKLGNAEAEVDEEGKDINPHIPQYISS VPWYIDPSKRPTLKHQRPPQEKQKQFSS SGEWYKRGVKENSITK YRKGACENC AMTHKKKDCFERPRRVGAKFTGTNIAP DEHVQPQLMFDYDGRDRWNGYNPEE HMKIVEEYAKVDLAKRTLKAQKLQEEL ASGKLVEQANSPKHQWGEEEPNSQTEK DHNSEDEDEDKYADDIDMPGQNFDSKR RITVRNLRJREDIAKYLRNLDPIAAYDP KTRAMRENPYANAGKNPDEVSYAGDNF VRYTGDITSMGQTQVFAWEAYDKGSE VHLAQADPTKLELLYKSFVKVEDFKE QKESILEKYGGQEHLDAPPAELLLAQ EDYVEYSRHGTVIKQGERAVACSKYEED VKIHNHTHIWGSYWKEGRRGNKCCHSF SKYSYCTGEAGKEIVNSEECINEITGEES VKKPQTLMEHLOEKLKEEKKKKKKKKK KHKSSSDSDDEKKHEKLLKALNA*EA VRLHVKETMQNDERKRPVNSMY*TSR PJEEMEAYRMKVRQRPDDPMASFLGQ
1936	9987	A	288	1	390	ITLGPDSIIGWISGNQHKQDPYIASMEHH TDWVNDIVLCCNGKTLISASDTTVKVW NAHKGFCMST/YKDT*ASSLSGNKDSIYS LAMNQLGTIIVSGSTEVLRVWDPRTCA KLMKLIGHTDNVKALL
1937	9988	A	2880	711	1140	GVGVCFPPVPSSLRVLGRWAAFCALPGR SLRKSRLWGWTGHTQS*EGELPWKAG/ WQRCFWRGGRQTLPLTCSPRTRGCRA AQEGAGCKARGAWVVRSPGRAGRPLR RGGSRVTLNSQMGS DATGETEWIKEMK PKKKKKMS
1938	9989	A	2881	1	649	MAGALVRKAADYVRSKDFRDYLMRVT QQPYKVFNSGPWAFSSSSYMSRPSAHISS LIVSRVGSSSTSFQGGGLGAGMGVEPLDP HENLYVDFYRGFIHNCQNLEANKMSFG RSQSEKAAYYLVPTTQSRSGKGKIMELVE RSVVARVEHFWGPVANWGLPIAAINDM KKSPEIISGRMTFVQPRNWLLFACHATN EVAQLIQGGRLIKHEMTKTASA

1939	9990	A	2882	1	389	
1940	9991	A	2883	27	554	LAVGCRGVGLGVIGSGKRQQRQGPLGV SVSAQPCAGALVRKAADYVQSK\DFRD YL\MSTHFWGPVAN\WGLPIA\INDMK\ KSPGDYSVGRMTF\ALC\CYS\LT\MEILP YKVQI*PLNWL/LCFACHGTNEVRPSFIQ GEGRLIPNTRMDLKRASGINQWGKGKN KVFEGDSLCPGCC
1941	9992	A	2884	1	162	QCAEKIASNPKIVVAMAKESVNAAFKIT LPEG\DDRKEGMPFVEKRKANFKDQ
1942	9993	A	2885	1	196	
1943	9994	A	2886	148	427	CLLGFTHHSASHDQPLPAGAGGTQRLTR AVGKSLAMEMVLTGDRISAQDAKQAGL VSMICAVETL*CLLGFTHHSASHDQPLPA GAGGTQRLTRAVGKSLAMEMVLTGDRI SAQDAKQAGLVSMICAVETLVGGAIQC AEKIASNSKIVVAMAKESVNA
1944	9995	A	2887	1	1484	EATLTRPRPAGGPAAGWYCPSAKTSGQL GAGFTFSPLEHCHPLSPSHLAVHPAGAGP VQQANREAPASPIFGLACCSGPVPLNA AGTPRIFTSPTLRPLARGANFEYIIAEKR GKNNTVGLIQLNRPKALNALCDGLIDEL NQALKTFEEDPAVGAIVLTGGDKAFAAG ADIKEMQNLSFQDCYSSKFLKHWDLT QVKKPVIAAVNGYAFGGGCELAMMCD IYYAGEKAQFAQPEILIGTIPGAGGTQRLT RAVGKSLAMEMVLTGDRISAQDAKQA GLVSKINC*DTGWKEAIQFAEKIASNS KIVVAMAKESVNAGRSPNLSECIYLEGV AVPRACRWLEAGYSEESILKERRLLSPE VFGKVLPWERMLAPALEPQRLPPSAHL DLLCLASCKERAWNEQSQRSSWCRPRP ALALVLSFLVFILGYFSLFAAPLPHSLSS RAQFAISPFQFLSLLGAVGYRSVTFGGH SRAVGSARSPLGQCL
1945	9996	A	2888	1	946	GRGVQRAMAALRVLLSCARGPLRPPVR CPAWRPFASGANFEYIIAEKRGNNTVG LIQLNRPLPVNWLCDC\LD*LNQGLKIF EEDPAVGAIVLTGGDKAFAAGADIQK LQNLFSRDCYSSKFFGRHWGPPSPRVK KPVIAAVNGYAFGGG\CELCH*CVDIIL/ YAGEKAQFAQPEILIGNLPRVRGGTQED SPVPVGKSLAMEMVLTGDPDPQPQDA QASRVLSKICPVETLVEEAIQCAEKIA\ SNSKIVVAMAKESVNAAFEMTLTEGSKL VEKKLFYFNLWPLDDRERRG*PRFVGKE KGPTFKDQ
1946	9997	A	2889	1	384	VRDYNLTTEEQAIAKAKYPPVNRKYEYL DHTADV/QWIVLHRA*YFFRLHAWGDT LEEAFEQCAMAMFGYMTDTGTVEPLQT VEVETQ/GWGEFSLSKHPQGTEVKAITY SAMQVYNEENPEVFVIIDI
1947	9998	A	289	1	1050	FRVNMQDGGPSPAHSKAEESAGMEAR FLGLPDAAGSSGTPARRCPAPRPAGVS YVIRDEVEKYNRNGVNALQLDPALNRLF TARRDSIIRIWRVNQHKQDPYIASMEHH TDWVNDIVLCCNGKTLISASD\TTVKVW NAHKGFCMSTLRTHKDYVKALAYAKG* VELVASAGLDRQIFLWDVNTLTALTASN NTVTTSSLSGNKDSIYSLAMNQLGTIIVS GSTEKVLRVWDPRTCAKLMKLGHTDN VKALLNDRDGTQCLSGSSDGTIRLWSLG QQRCIATYRVHDEGVWALQVND\AFTHV YSGGRDRKIYCTDLRNPDIRVLICEEKAP VLKMELDRSADPPPAI

1948	9999	A	2890	1	332	RDYNLTTEEQKAIKAKYPPVNRKYE*DDL QSLLFHFLDEWLYKFSADFFIPREVKVL SIDQRNFKLRSIGWGEEFSLSKHPQGTEV KAITYSAMQVYNEENPEVFVIIDI
1949	10000	A	2891	3	425	SFMAQEEEDVRDYNLTTEEQKAIKAKYPP VNRKYEYLDHTADVQLHAWGDTLEEF EQCAMAMFGYMTDTGTVEPLQTVEVET QVHADEFFIPREVKVL SIDQRNFKLRSIG WGEEFSLSKHPQGTEVKAITYSAMQVY NE
1950	10001	A	2892	91	598	LKNRRRSRPSIRQSIGSTSVSRWLTSFTY LDHTADVQ*V*REFIPLKPRQ*ED*MFQS WLHAWGDTLEEAFFEQCAMAMFGYMTD TGTVEPLQTVEVETQGGDLQSLLFHFLD EWLYKFSADFFIPGWGEEFSLSKHPQG TEVKAITYSAMQVYNEENPEVFVIIDI
1951	10002	A	2893	359	938	IYFFRLHAWGDTLEEAFFEQCAMAMFGY MTDTGTVEPLQTVEVETQGG*LVVLLF HFWDEWLYKFSADFFIPGKLCIAIV*K RL*RP GAVAYACNPSTLGSRGWIT*GQ EFETSLTNKEVKVLSIDQRNFKLRNNGW GEEFSLSKHPQGTEVKAITYSAMQVYNE ENPGSCDHWTFTKTQIKRLPTGKK
1952	10003	A	2894	220	345	LKKEKSLMEKHFF*QTDSSVSNLEKNHE PSDIVNSLQWAMVS
1953	10004	A	2895	1	281	
1954	10005	A	2896	83	425	
1955	10006	A	2897	1	3600	
1956	10007	A	2898	1	197	
1957	10008	A	2899	1	963	
1958	10009	A	29	376	610	FPAFWESQVRWIASASGVQDQPDQYGEI LFLKLQKLGCHGG/IR*EDHLSLGGQGC KEPRLYHCTPAWVTEHYLVSKK
1959	10010	A	290	1	366	FPNSSRLIWPECNRIKEESLVSASPGSFCK PHLDLALGLGL/GVGLMVGLGLGLGLFL GLGFDLGVGLGIGL/GVKLGLSDGY/GLG FRLGLGL*AGLVGLGIRVGLKPGLGLEI FVGLILCICI
1960	10011	A	2900	49	247	DLTRNHSPLQTVHDVRFMIFQV*YRR IKFVKRNASPSGI*NII*TINTFVCIYK*IFR YKNMHI
1961	10012	A	2901	1066	1768	NPQSSSESGSR*DFPRLTVTNRLLVQRSE VTQAPGQYTV DVEGHGCTFIQATLK\YN VLLPKKASGFSLSLEISKELLFDCF*P/RQ VNLQYTGIRNKSSMVVIDVKMLSGFTPN PCHPIELENKGQSD*E*SKNDPCSFSY LENVFGQPDSPFFC*AEQPLCSTFQPGP SHGLTDYKEEYALAFYQHRTVVPVSE *DKAITRRVGEAISCNKLILLYQTWKKIM NHLTS
1962	10013	A	2902	620	1124	ETPAPCLQAWVPQACREGPLAFRELLGG VLALSTPGERCSVSVSEFETRARCTQ/PC WGSPKFLSPPHAKPAITLRPELKEAPWP APSLGPPGGLSTPPSGIPCPPQCCQGHVA LCRGLRPSW*TE*PVCWKMPRCPEKLP PGIFGNETYLVPIVNWPTGTSFLSTY
1963	10014	A	2903	2	399	WKESQGRCEW*VARGL*ADLT*GFHWH LPGAPPWGLLTGGGQGRGHGRGGWA LSGRPPRGFHWHLPGAPPWGLLTGGG QGRGHGRGGWALS GIPRLQSFQVWA ESPLQLPWGC VAGISVHTGVSWLP

1964	10015	A	2904	73	867	GRAEQTS DTHFFASTSACSHNLTMSCPN YCSGNSNSGSLRTSRHIPLTSIDLCP TSVS CGDVL YLPTSSQDHTWVTDNCQETCGE PTSCQPVHCETGNLETSCGS/SHC/CTTCP GPCQGSSFLPASFFSSSCLPVSCRTTEVC/ RPAAVRPLRAVVQ*FTSP*GDCVAQCLAR PQFCLSKSCQPQNLLTSGCQPSSCLAYRP QSLHVVSSSLRPLGLFSGCQPLTHVFST VSSHLALEHGSPNICFLQSSILLHRSSSRA VCSSALF
1965	10016	A	2905	1	478	
1966	10017	A	2906	800	1209	LFSSGAVPQRTSPHQAPKNMQTSGRLS NVAPP/CILRKNPPSARNGGHET*CPNSL NSNQQLVDLKLTVDGLEKE\RDYFYSKL RDIELICQEHESENSPVISGIIILYATEE\G FAPPEDDEIEEHQ QEDQDEY
1967	10018	A	2907	1	3961	MSSKHLKSEQIKDQIRVPVISLIPKIHSAQ EEQLSSTAVCSCPARVFCVTKVVAVFQ MWMLHDLVQMVPRSLQWLP HIFTLFSN PLILYHSHEL SAPSFAEQRECKLAYMPVS SASAHLLQLQAFDFNLSVLSLARNML ANSASVRILIKGGKVND DCTHEADVYI ENGIIQQVGRELMIWRGQKLVIPGGIDT STHFHQTFMNATCVDDFYHGTKVMLLF AKGGFLFGFILLGLLQTRLMASLAKS D
1968	10019	A	2908	48	308	NPRCGPGGSRFVSSWCSVFPEAGGG*RK EPGMRGAGYKQRMGS*SKGPFAFIMPF PRPRPGFVLPPPHLPDLNKGPHFSQKKK KK
1969	10020	A	2909	3	214	
1970	10021	A	291	49	418	FMINPPNQVGRYRNINLTNIIYQKPLAP VIL/HGEIFKIFLTGIGVTQRYPLSPLPFKV FLAALDRK*REGAGEEVNGIENKRIKLSF VSDMIVYVENSKEKNGQLELMRGICKT ATKLQKL
1971	10022	A	2910	312	387	
1972	10023	A	2911	3	216	NCLLRPKNKSVRWGP GAGAA LLRPSA ALGAGSRACSVPPAAPAQTTPRQVSAPA WGPGRARGSGRMERRMKAGYLDQQV PYTFSSKSPGNRLAR\TLIGPLGKLM DP GSLPLDSEDLFQDL SHFQETWLAE AQV PDSDEQFVPDFHSENLA FHSP TTRIKKEP QSPRTDPALSCSRKPPLPYHHGEQCLYSS AYDPPRQIANQVPCPWCPLDSRPYSPFPG QSNGIS*DPLAPPSPTLAMGTSGNIAPSSS SPWDICHSFTSQGG/APG/HPSQAPYQH Q LSEPCPPYPQSFKE YHDP LYGTGGAS QAVGTRGGGSMGAQ/RYPGAGVVIKQE QTDFA YDS DVTGCASMYLHTEGFSGPSP GDGAMGYGYEKPLRPFDDVCVVP EKF EGDIKQEGVGAFREGPPYQRRGALQLW QFLVALLDDPTNAHFIAWTGRGMEFKLI EPEEVARLWGIQKNRPAMNYDKLSRSL RYYYEKGIMQKVAGERYYVKFVCEPEA LFSLAFPDNQRPALKA EFD RPVSEEDTVP LSHL\DESPA*PPYSGLAPRPSVRAPGHA RYPPRLQPRRPGLRSRPPLGAPAVRREG AAGWSGG
1973	10024	A	2912	119	444	GFGVGTTPALTCPVTPSYSPKARPS*T/EL EPPSRCPCQTLGPQAEQNQMSSAPSL ASPPSKQPPLMANRCCCVPRSRIHLCCGIQ NRLGFWD SREERGGDATWVSVD

1974	10025	A	2915	1	574	GADGGGAFRLSGPGP*APPGSSALMMP SSCPWRTGALGPSPAGSRALGRCTSSVG PGSRWLTRTSSPGCAYQNLENDEDGAQ ASPEPDGGVGTRLGPGEPAE/PSIRSFPVV LQHHSAAAPSAPTPAAAGPNTL*SRRT AEWCWPPSCSCCLGPGADPGRGNWRR PPLPRCLQRQSSSCRAFLLLVPGV
1975	10026	A	2916	355	511	LFLETESCFVAQAGARWAVITHCSKL/L GPCNPPISAL*VARTTGMSHTEP
1976	10027	A	2917	1815	2152	INKEMSGQARWLTPVIPALWEVKVVDH LRPGVRD\HQPQQQSETPVSTTIQK*ARY GGMCL*S*LLRRLTQQNHLNQQGGRGCSE LRSRYCTPAWARQSKTSSQEKKEKEM PW
1977	10028	A	2918	315	480	
1978	10029	A	2919	1	1845	
1979	10030	A	292	5	377	FMINPPNQVGRYRNINLTNISQKPLAP VIL/HGEIFKIFLTGIGVTQRYPLSPFKV FLAALDRK*REGAGEEVNGIENKRIKLSF VSDMIVYVENSKEKNGPILLELMRGLSK NATKLQKLI
1980	10031	A	2920	407	802	
1981	10032	A	2921	914	1134	QESLLLQFTKSSSCPSETTSARTLLSILLS AFWAKPFNKSLSGSKLSHIFLSSSDPSK/A VPTSAYYPVPKSLPH
1982	10033	A	2922	1	447	
1983	10034	A	2923	218	544	SGFSLSLRGSISFSL/CFKVGMCVITYPRCY C*SVPVP*KPLIKPGWVSELPKPMNWASC SRTLASFLQAARSHPWTPMKMETMEQ SKLRSQPCPAAGAVDPRAVVHGT
1984	10035	A	2924	3	260	
1985	10036	A	2925	1	534	
1986	10037	A	2926	198	562	LKCGKQWSDPITSPQTESQLLGSSQQQL HQQRHLQGP*K*NRDSPLCSLSSCPIPK TYTNRHILLP/SSSKSLCKFL*PA*ISPQKM GFSFSLSQSVCKFSKLLCSASLIKLKAFNSI QVTS
1987	10038	A	2927	72	270	
1988	10039	A	2928	325	535	
1989	10040	A	2929	492	696	
1990	10041	A	293	346	489	QLQAMAIFEYLKKTFLRPGTVPHSCNPS TLVGGRRGGWIT*GQELEASP
1991	10042	A	2930	822	1759	SSAEPSPSPAPSQQTAAAGAPPLCAVS PMASASGAMAKHEQILVLDPPTDLKFKG DG*VFIRPEQYYTV*KWCKRSKRHGPF PFTDVVTINLKLRLNP\SDRKVCFKVKT VPS/RRYCVRPNSGNDPGSTVTVSVML QPFDYDPNERSKHKFMVQTIFAPPNTSD MEAVV/WKEAKPDELMDSKLR\VFEMP NENDKLNDMEPSKAVPLNASKQD\GPM PKPHSVSLNDTETRKLMEECKRLQGEM MKLSEENRHLRDEGLRLRKVAHSDKPG STSTASFRDNVTSP\LPSSLVIVIAAIFIGFF LGKFL
1992	10043	A	2931	2	417	FVAQQLQGDSLHFMQALYGOHFPIEVR HYLSQWIESQA/WNTYDRCPMELVRCIR HILYNEQRLVREANNNGSSPAGSLADAMS QKHLQINQTFEELRLVTQDTENELKKLQ QTQEYFIQYQESLRQAQFGPLAQLSPQ
1993	10044	A	2932	1	855	
1994	10045	A	2933	1	810	

1995	10046	A	2934	224	2606	TMAVWIAQQLQGEALHQMQUALYGOH FPIEVRHYLSQWIESQAWDSVDLDNPQE NIKATQLLEGLVQELQKKAHQVGEDGF LLKIKLGHYATQLQNTYDRCPMELVRCI RHILYNEQRLVREANNNGSSPAGSLADAM SQKHLQINQTFEELRLVTQDTENELKKL QQTQEFHIIQYQESLRIQAQFGPLAQLSP QERLSRETALQKQVSLEAWLQREAO LQQYRVELPEKHQKTLQLLRKQQTIL DELIQWKRRQQLAGNGGPPEGSLDVLQS WCEKLAELIWNQNRQQIRRAEHLCCQLPIP GPVEEMLAEVNATITDIISALVTSTFIEK QPPQVLKTQTKFAATVRLLVGGKLNH MNPPQVKATHISEQQAKSLLKNENTRND YSGEILNCCVMEYHQATGTLSAHFRN MSLKRIKRSRRGAESVTEEFITVLFESQ FSVGGNELVFQVKTLSPVVVIVHGSQ DNNATATVLWD\NAFLQEPGRVPFAVP DKVLWPQLCEALNMKFAEVQSNRGLT KENLVFLAQKLFNNSSSHLEDYSGLSVS WSQFNRENLPGRNYTFWQWFDGVMV LKKHLKPHWNDGPILGFVTKQAHDLLI NKPDTGTLRFSDEIGGITIAWKFDSQE RMFWNLMPFTTRDFSIRSLADRLGDLNY LIYVFPDRPKDVVYSKYPTVPCESATA KS/VLDGYVK/PQIKQVVPFVNASADAG GGSATYMDQAPSPAVC/PPQAHYNMYP QNPDP*VLDTDGDFDLEDTMDVARRVEE L/LGRPMDSQWIPHAQS
1996	10047	B	2935	123	219	XPPTGMTMDKSELVQKAKLAEQAERYD DMAAA*
1997	10048	A	2936	1	1815	
1998	10049	A	2937	1	510	
1999	10050	A	2938	107	961	VVGLGRKRSSRSGASLGRVFPVPCSPPTG MTMDKSELVQKAKLAEQAERYDDMAC SSERHVTEQWHERLQPKRNLLSVAYK NVVVGARRFLPGRVISSIEHENREGMKKK QQMGK\EP*EDRRQNLQDICK*CFWEL LDKYLIPN/AVTQPES*GVLL*KLKGGYF RYLSEVAS*DNKQTTVSNSQPGFTREHF EISKKEMQPTPIRLGLALNFSVFYIEIL NSPEKACSLAKTAFDEAIAELDTLNEESY KDSTLIMQLLRDNLTLWTSENQGDGED AGEGEN
2000	10051	A	2939	208	1178	EGRGHLARSFARKGLCSLQPSHGRVSRD LGRYKCKILPIRLWIEKQEEHWTWSQGM TMDKSELVQKAKLAEQAERYDDMAAA MKAVTEQGHELSNEERNLLSVAYKNV GARRSSWRVISSIEQKTERNEKQKQMG KEYREKIEAELQDICNDVFELLEQISLFP NATQPRKVKVFLLEK*KGDFYF\YLF*K WQS*RQQTQPTCVETPQQLPRKQFEISK KEMQP\THPIRLGLAPKFPQSIFYEIPKL PLKKA\W*AWAKTALCFRHFDP*SNLLNL DTLEWKSLIKDSTSDSWQLLRDNLTLW DIRKTRGDEGDAGEGEN
2001	10052	C	294	140	172	
2002	10053	A	2940	1	459	IEIHIKCGGIPAVLAAPAMGLEFLDLVS QPSRAVYIFAKKNGIPLELRTVDLVKGQ HKSKEFLQINSLGKLPTLKDGDFFILTE/SA NRSVYLQGGCWHITEMRFSKCKAEGPA KRSAILIYLSCKYQTPDHWYPSDLQAR ARVHEYLGWHAD
2003	10054	A	2941	2	310	
2004	10055	A	2942	205	454	

2005	10056	A	2943	5	437	AQESRDCGDHDRATALQPGQSEILLQ RLPPENAVD*VALEGSQPL*TLACLLSCK YQTPDHWYPSDLQARARVHEYLGWHA DCIRGTFGIPLWVQVRRANLPFLSFPLAP VPSLQLHVKLCTDKTSLVLSASILRCSI HTS
2006	10057	B	2944	307	447	XSAILIYLSCKYQTPDHWYPSDLQARAR VHEYLGWHADCIRGTFGIPL*
2007	10058	A	2945	2	384	
2008	10059	A	2946	1	1278	MPGLGFREKKGGSRTVIPASRGCGLPAPI LCTKWELPLSGSSRCLAAAAALQGTWVT AESSSLTPAFQSRGWGLIPYFPARRDPAT AAAHTALSFTAIPAVLAAPAMGLELFLA DLVSQPSRAVYIFAKKNGIPLELRTVDLV KGQHKSKFEFLQINSLGKLPKLDGDFILT ESLAILIYLSCKYQTA\DH\WYP\SDLQGF GARVHEVPWAWHADLHPVGTFWYYP WGVQGVWGHSLGVQVPEEKVGTQTRT AMDQALQWLEDKFLGDRPFLAGQQVTL ADLMALEGS*CKPVALGYELFEGRPRLA AAWRR\RVFAFLG\AELCQEA/HTSIHLSIL EQAA\KKTLP\TP\SP\EA\YQ\AMLLRNRP SGS PEGSGMGAKEISNKDSFCYLLAPFYLSLL PQSLLSKLQCEALHRQRHSSVLWQVLL LRCKHT
2009	10060	A	2947	298	456	NIYQLE*K*FKNGQVWLGA VVRACNPST LGGR/WIPWGQEFGTSLANMVKPRLY
2010	10061	A	2948	59	190	ARSFHSAPQGHLECHWCPGVLEL*GHR NPDTCPHLEQGISSK
2011	10062	A	2949	319	460	HFSYIHWFYTEKYKIKITHQDYLQKFIIY/ CTEEKHAYH*PNKILFIT
2012	10063	A	295	2008	2438	WSLHRPRGPLLWHMPPRVPPPLTGL*SSP HDSVGPQWPWSPPTTSFNSPDPPENVQN HPGKPVAKSPFVPQRNGH/PPKR/PTWGS STCWGEVIRSGSPPTTKPVWPTSCEFGS VLPPEDTVFP\PHFVSLILFAISFALVCG D
2013	10064	A	2950	78	3703	FQELGAREPFGNMYDADEDMQYDEDD DEITPDWQEACWIVISSYFDEKGLVRQ QLDSFDEFIQMSVQRIVEDAPPIDLQAEA QHASGEVEEPYRLLKFEQIYLSKPTHW ERDGA PSPMPNEARLRNLTYSAPLYV DITKTVIKEGEEQLQTQHKTFIGKIPIML RSTYCLLNGLTR\RD\CELNECPSDP\GR YFIINGSEKVLIAQRKMATNTSFCRLQK TDSKYAYT\GECRSCLENSRPTSTIWS V
2014	10065	C	2951	162	293	MGNLLKVLCTDLEQGNFFLDFENAAQF TESEKEIYNQVNVAL*
2015	10066	A	2952	286	1327	AGAKFFP*F*KVADAQPTSESEKEIYNQV NVVLKDAEGILEDLSYRGAGHEIREAI QHPADEKVAKKAWGAVVPLVGLKK FYEFSQLRLEAALRGLLGALTSTPYSPQH LEREQALAKQFAELHFTLRFDELKMTN PAIONDFSYYRRTLSRMRINNYPAEGEN EVANELANRMSLFYAEATPMLKTLSDA TTKFVSENKNLPIENTTDCLSTMASVCR VMAGNTIEYRSQILQNEETVSFLSWRAM VGCS*YSYDHRTSSGEAFCLKLPKFDK GCIKVLKDQPPNSVEGLLK\SLRYTTKH LEWMRLPPSKLKSMLPITILGIKHPAVDR RQYSAMTENAVF
2016	10067	A	2953	75	478	AVKMCDFD*QDTA*FKEAFQLFDRGTGDG KILYSQCG\DPKSDMENVKVLD FEHFLP MLQTVAKNKDQGT*DYVEGLRVFDKE GNGTVMGAIRHVLTGKMTTEEEVQ MLVAGHEDSNGCINYEELVRMVLNG
2017	10068	A	2954	2	343	

2018	10069	A	2955	34	353	
2019	10070	A	2956	2	303	
2020	10071	A	2957	1	999	
2021	10072	A	2958	255	528	ARYKIHTGKGTDSETGKVLSHSAPCGR CSRPWARHPDRSMPhKRFIVDTNQLLSS CPATSISTSSSVNVLPRCD/FPEDQTAEFK EAFQLFDRTGDGKILYSQCGDVMRALG QNPThAE\VLKVLGNPKSDEMNVKVL FEHFLP\MLQTVAKNQDPGSPMGFMSKE LRVfyK\EGNGTVMGAEIRHVLVTPG*\ KLTEEEVEMLVAGHEDSN\GCINYEAFV RHTPVGVTGPWAGASSAWC
2022	10073	A	2959	26	518	AVKMCDFTE\DQTAEFKEAFQLFD/RKPG DGKIPCTAQCGDVMRALGQNP\NAEV LKAPGEPPRSDDMSVKEH\DCHEFLHIL QTVAQNQG\QGT\YEDYVEDFRVFDKEG \NGTVMGAEIRHVLVTLGEED*QRKKV EMLVAGP*RTANGLVSNYEELVRMVLN G
2023	10074	C	296	165	290	MCHRAGPASLSAGQFIHFLVTPMAAPRI SAVCGPESRHQG*
2024	10075	A	2960	453	744	
2025	10076	A	2961	736	1062	
2026	10077	A	2962	295	782	PLLCNPDPGWYWWVKQSEISESKESQEM DARPKLDLGFKEGQTIKLCIGNITNKKGG ASKPRTARGGGLSLLPPP*GKVTIPPPSS \VKLPSTNHVTPPSIPKSNHGGSDA\DLA DLDSPAPVTTAPTP\VS\SN\DL\WGDFS TASSVP\NQAPQPSN\WVQF
2027	10078	A	2963	192	324	
2028	10079	A	2964	1	1044	
2029	10080	A	2965	1	811	
2030	10081	A	2966	1	750	
2031	10082	A	2967	493	1946	
2032	10083	A	2968	539	1215	
2033	10084	A	2969	414	1762	
2034	10085	A	297	883	1095	GSGV*DQPG\QHGKPPSLL*LQNLAEERG GHL*SQLLRRLRQENHLNPGGRCCSEL SRHCTPAWATRAKL
2035	10086	A	2970	449	1305	SKSRMSAEVIHQVEEALDTDEKEMLLFL CRDVAIDV\TPPNVR\DLL\DLRERGKLS VGDLAELLYRVRRFDLLKRLKMDRKA VETHLLRNPHLVSDYRVLM\AEIGEDLDK SDVSSLIFLMKDYMGR\GKISKEKSFLDL VVELEKLN\LV\APPDQLDL\LEKCLKNHRI DLKTKIQKYKQSVQGAGTSYRNVLQAAI QKSLKDPSSNNFRLHNGRSKEQRLKEQLG AQQEPVKKSIQSEAF\LPQSIPEERYKMK SKPLGNLPG\LDWHWALRTELSTFEDTFTS LGY
2036	10087	A	2971	473	1164	SKSRMSAEVIHQVEEALDTDEKEMLLFL CRDVAIDV\VPPNVR\DLL\DLRERGKLS VGDLAELLYRVRRFDLLKRLKMDRKA VETPLFKDPPLVSDYGVLM\AEIGEDLDK SDVSSLIFLMKDYMGRGKISKEKSFLDL VVELEKLN\LV\APPDQLDL\LEKCLKNIP QK*P*RQKSQKYKQSV\QGAGTSYRNVL\ QAAI\QKSLKDP\SSNNFRMITPYAHCPDL KILGNCSM
2037	10088	A	2972	482	692	EKPL*SYLSSFFHFLEMGSHPRI\VC SGV IVAHCSLQLLGSSDVPTS/ASR*LGLTGSH TTIPSLGLFLN
2038	10089	A	2973	1	358	AQLVEFGEHSMAPP\AHFRALLYHPGTAT LVPHPASISQHSPPWGNA/RG*PV*RQR HLTAPRSPPHPRFRHKPGKDPRENPSRW PEVPSLPQTHVVPQAAWDTVNTTVCK NRSTKPQD

2039	10090	A	2978	136	500	GTLPNSSLCESNNGHPRQRGRGSCPSRY TGVPSSPRLSRIQSWIR/HLHPPSPTRPSY SSPQASASPVGLRGHPAQTWTTCSRVP SPVRFSSGSDGEKRLGQSCPHGNPDGAA CISRPPYA
2040	10091	A	2979	242	9991	FKLELHQESDMEFNNTTQEDVQERLAY AEQLVVELKDIIQKDVQLQKQDEALQE ERKAADNKIKKLKLHAKAKLTSLNKYIE EMKAQGGTVLPTEPQSEEQLSKHDKSST EEEMEIEKIKHLQEKEELISTLQAQLTQ AQAEQPAQSSTEME EFVMMKQQLQEKE EFISTLQAQLSQTQAEQAAQLSSMQQVV REKDARFETQVRLHEDELLQLVTQADVE TEMQQKLRLVLRKLEEHEESLVGRAQV VDLLQ
2041	10092	B	298	191	494	MKLKRGAGSCKKPGSSGWGPAVGEFHS VQNICARREYQRQDYMDAMAEKQKLD AEFQKRLEKNKIAAEEQTAKRRKKRQKL KEKKLLAKMKLEQKKQEGPX*
2042	10093	A	2980	3	211	
2043	10094	A	2981	1	519	
2044	10095	A	2982	291	686	GLGTFAYISQDVWKSlyVQAEVCCRGR VFLVCSCGSCWSKSSRCEPPYAVLSIQVE AAHMHEIWCRSDRDLPEWSSCSLLLE KDPP/SGPQTDQPKKHLTNFKSDKGDTF YPWTQNSGAGHGLGRQPSLGV
2045	10096	A	2983	1	639	
2046	10097	A	2984	2	423	GFLVLLTSRMKLRTLAKQRRHILSVDPK LRRRSRTGKAAPWCLIIAGTPLIIHPRFK GVRPCRDACLGPSPLAASPAFLGEGQEL ATSARNLTTRPNACSPGFLLSRVHLCG TPLEI*PPQGMPAAQDSS*AVSICAGPH WKSDCSTHLAGTPRAPGILAQGS
2047	10098	C	2985	80	106	MRMKFGLD*
2048	10099	C	2986	259	531	MSPAHKNFQTPEPQRPPIPPEPPPGACY KCQKSGHQAKECLQPRIPKPRPICAGPH WKLD CPHLASTPRAPGTLAQGS LTASQ IFLA*
2049	10100	A	2987	3	505	
2050	10101	A	2988	1	1056	
2051	10102	A	2989	1	1482	
2052	10103	A	299	2	478	SGRLPWLAQPPPRCDHRGPRKSRRRSS PRMRREEQKLKLERLMKNPDKAVPIPEK MSEWAPRPPEFVRDVMGSSAGAGSGE FHVYRHLRRREYQRQDYMDAMAEKQK LDAEFQKRLEKNKIAAEEQTAKRRKK/R PQS**KKNLLAKMKLEQKKQEG
2053	10104	A	2990	399	567	ACYKCWKSghrvKECLQPRIPKPCPIC AGPH*RSDCSTHLAATPRAPGTLAQGS
2054	10105	A	2991	1	468	
2055	10106	A	2992	1	984	
2056	10107	A	2993	1	900	
2057	10108	A	2994	1	522	
2058	10109	A	2995	3	1150	
2059	10110	A	2996	3	500	LEGASYGETKADVAEGKSQKKATEWRS QGQRRKGEETSQLKCKRTNQLSVKRT NQLSVIWTNQDVGSYANPLMAEPAQ AVKLGWRPSPKPHIGDKSVFWLLWMG SVQQGQKIGP/PSQGNACRPNSS*SHVP CGGGPHWKLD CSTHLAATPRAPGTLAQ GSL

2060	10111	A	2997	3	603	GHSRPRNWSQWSPRFLWLEAHRPSPGSP DSAEQRSQVSDCLGTSRHGTGALFLALG IYAASCYVARFIRVRPHRDAYS LQGRLS DHSPTTFQGCQTTOGRLPWSFTLSGKSRF SGEGATTSPAHNKFQTPPEQWPGIPPEPP PTGACYTCRKSGHWAKECPQARIPPKPH PICVGPH*KSDCSTHLAATPRAPGTLAQG SL
2061	10112	A	2998	1	669	
2062	10113	A	2999	1	762	
2063	10114	A	3	32	474	LYALRNQIKPPPHVTGGQ*QKQERTKPA WRPPRP/GPPPFIALIGFCFSSVPVAWVEL RVEPPGGHWPLSPLGEVRGEWRRPLSGL AS/VGQWLVPSPGEGGGGWAGSPQVS GGWPPSAHLRNPLSLGDILPAPQHPALS PGGPKLCG
2064	10115	A	30	147	766	GALHLIRKGSPLHGQAHKHVAQQGRGIL SRVHRPTHVHTQGRKATRLGLCSAHR APHPSEFLPLVPVCCS/WHHCETPRPCPLL PCPPSSGASTSRTASSPVLSLTD*PYLSE TEEQVSPGLTHKASLEPRSDAKTSSH PRDWPHPMVDCAAALSWTQPLWMFCG SRLAFHDAPAPAHMRAIWASRAIPAARP GPHLGLAAASC
2065	10116	A	300	72	409	VCSETGFILYCRN/DCKWDAPILETVWFF VRS*TLDMNCTPAIPFLFIYPLEMYGHA Y*MTCTRIFMAALFIATNQKSPKCSINSI HATKYIAMIKLIQLYPYVATWINKVF
2066	10117	A	3000	1	519	
2067	10118	A	3001	1202	1315	
2068	10119	A	3002	1	930	
2069	10120	A	3003	132	248	
2070	10121	A	3004	3	439	
2071	10122	A	3005	1	357	
2072	10123	A	3006	1	765	
2073	10124	A	3007	1	1434	SVAFVFACPAVDYLKISWELQGDEEQD GLRNMIWQTLQTKDYEDVRIQNAINI AQGASEAIGQRQSSAAKPRRSGKESVRE PWARVPGALGVAAARKYQKMKGIEIKRR ERLKCAGAKIERRKRLKDREVGESKRRP LTGFEIEPPKVTVMKPNQSFTGGSEVSIM CSATGYPKPKIAWTVNDMFIVGSHRYR MTSDGTLFIKNAAPKDAGIYGCLAKAPK LMVVQSELLVALGDITVMECKTSGIPPP QVKWFGDLELRPST/CFLLSILAP/PLQS LPSLNFNFSHFLADFLAATPRAPGTLAQG SLTDSFPDLLGLAAED
2074	10125	A	3008	166	421	RPRSERLLWGTSPSL/CALTL*GDPPTTSG PQTNQLKEHLTNFKSGPHWKMDCPHTP AATPRAPGTLAQGSLTDSFPDLLGSAAE D
2075	10126	A	3009	1	434	
2076	10127	A	301	92	617	DRVLSLLPRLECSGILAHNCVCLP/GFK RFS\CLSLPSSWDYRHTPPCP/V*LVLVE MGFRHFSQAKSRTL/TGDPPASASQKCW NYRRDNLAWLASALNKVINLLKSEIPSF FLVQLSGFSRTLLQGFNFNYHTLVYS NNLPIMQTFTQDFGRISGKPPFGIMILCN REILYIM

2077	10128	A	3010	1478	2240	WQVPLSWGRGKYPSTPSPSPLAASPTFL GQGQVPLNPFSTLSGKSRFPAGASTPQ PLLHPQRQVPLSWGRGKYPSTPSPSPA ASPAFLGQGQVPLNPFSTLSKSRFPGR QETPNRLFPHNLLSLHPNLPFHPDLS LCPNLPFPCLNPFSAFLEGKNPPLLRVST LFSGLASFTMGACYTCQKSGHWAKECP QPGIPPKPCPISVGPH*KSDCSTHLAATPG APGTLAQ/GLTDSFPDLLGLAAED
2078	10129	A	3011	1	624	
2079	10130	A	3012	321	512	
2080	10131	A	3013	1005	1251	KGGWSQRHSQGACYTCRKSGHWAKEC PQPGIPPKPRPICVGPH*KSDCSTHLAANP RAPGTLAQGSLTDSFPDLLGLAAED
2081	10132	C	3014	18	56	MAINSIRSLQLM*
2082	10133	A	3015	188	364	
2083	10134	A	3016	602	2459	FWGEGEKATAFLICNLAGCLRCPVDMN S\QGSDSNEEDYDP\NCEAEKEEEEEED\DP\ GDIEDY\Y\VGVASDVEQQGADAFDP\EE YQFTCLTYKESEG\ALNEHMT\SLSFLSL KVSHSSWLNLYLVNFHWQVSEILDYK SNSAQLLVEARVQPNP/SQKHVPTSHPPH H\CAGCGMQVCAKRENLL/SLWACQL*F CRSCWEQHCS\VLVKDGVGVGVSCMA\ Q\DCPLARNTSGTTFVFP\ALLPNEEFEEKY RRYLFRDYVESHYQLQL\CPG\ADCPMV IRVQEPRA/RARVQC\NRCNEVF\CFKCR QMYHAPTD\CAT\RKWLTKL\QDDSETA NYTSAHTKDCPKCNICNEKDGG\CNHM QCSKCKHDFCWMCLGDWKTGSEYYE CSRYKENPDIVNQSQAQA/RREALKKY LFYFERWENHNKSLQLEAQTYQRIHEKI QERVMNNLGTWIDWQYLQNAAKFFGQ GSFSSLLQCRYTLQYTPYAAYMESG PRKKLFEYQQAQLEAEIENLSWK\VERA DSYDRGDLENPD\ITEPTGGTNPCCLKD FHDTLSDVDVPGVRKISLARSRAAH TACLAGSAFHDPQATAQGPTPERHWQH LLVDFCFLFLSLFVSTQGRRPC
2084	10135	A	3017	103	769	GPCCPIIQLILFQCFKHFGPLCFQLCK LMMPKSLVMEYLAHPSTLAGLAVGVAC GMCLG\WSLRV\CFGMLPKSKTSKTHTD T\ESEASILGRQPGSPG*FLVVRN*L*RWG KGERGCPSASHAAVSSPTKQISKKKSPE MAQNNGEYWWASPKVGGSKVPDEETLI AL\LAHAKMLGLTVSLIQDAGRTQIAPG SQTVLGIGPGADLIDKVTGHLKLY
2085	10136	A	3018	99	478	
2086	10137	A	3019	2	87	
2087	10138	A	302	367	619	ETRCRGHPPRDREPPPS*PGIQSSPGVP/PS RPSNKAYPRLPIRPQPPGLSFRISTPPRPS KPPCPPHIGRHVQPTKTSAVSILS
2088	10139	A	3020	1	921	

2089	10140	A	3021	1	2203	MGGASARPAAPSGRWGVPLPGRPFWEV MSPSARPPRLGGVPNSSLRTGHDDDDGG FVEQRRGKGDSEGLGLRIKLVRVVFWS QLVMAFDKAELPSSPKVLVLTIVTRATG GVGLQTLRLQERPQIGQLGALCLICTVR LCGHEEMTSTFNPRECKLSKQEGQNYGF FLRIEKDTEGHLVRVVEKCSPAEKAGLQ DGDRVLRINGVFVDKEEHMQVVDLVRK SGNSVTLLVLDGDSYEKAVKTRVDLCEL GQSQKEQGLSDNILSPVMNGGVQWTWQ PRLCYLVKEGGSYGFSKTVQKKGVY MTDITPQGVAMRAGVLADDHLIEVNGE NVEDASHEEVVEKVREGPRRVGYGFDR QQMAAALQKRGTLVKNKQTESNNNINK KRPHKNPIQSSAASKIEELEKNYFKIQYG SKKEPVQVKTTSKKNKAGGITLPDFKL YYKVTVTKTACSRYFHWKMNLVCVILLIL /VFPMPVFLQLAYFIVSNIRLLHKQRLLF SCLLWLTFFMYFFWKLGDPPILSPKHGIL SIEQLISRVGVIGVITLMALLSGFGAVNCP YTYMSYFLRNVTDTDLALERRLLQTM MIISKKKRLRGPGVVGFLLIYSPVGQIAE DLTLIQEVDLEELSRQLFLETADLYAT KERIEYSKTFKGYFNFLGYFFSIYCVW KIFMVKFWSQHISFILVGIIIVTSIRGLLITL TKFFYAISSSKSSNVIVLLLAQIMGMVYFV SS
2090	10141	A	3022	2	215	
2091	10142	A	3023	50	1598	GGLWPQRAVASGSGKWRQEPSLHFAMS FLIDSSIMITSQILFFGFGWLFMRQLFKD YEIRQYVVQVIFSVTFAFCTMFELIIFEIL GVNLSSSRFHWKMNLVCVILLILVFMV PFYIGYFIVSNIRLLSPLSQVA*TTDWL FSCLLGLTFMYFFGKLGDPFPLSPKHGI LSIEQLISRVGVIGVITLMALLSGFGAVNCP PYTYMSYFLRNVTDTDLALERRLLQTM DMIISKKRMAMARRTMFQKGEVHNKP SGFWGMIKSVTTSASGSENLTLIQEV ALEELSRQLFLETADLYATKERIEYSKTF KGYFNFLGYFFSIYCVWKIFMATINIVF DRVGKTDVTRGIEITVNYLGIQFDVKF WSQHISFILVGIIIVTSIRGLLITLTKFFYAI SSSKSSNVIVLLLAQIMGMVYFVSSVLLIR MSMPLEYRTIITEVL/GEELQFNF/YIHRW FQDVIFLVRRLSLGILFPLFGLHKQAPEKQ MAPLNLKPYLQTDKRPSGFQKFRI
2092	10143	A	3024	1	158	
2093	10144	A	3025	2	1067	AAELGTFAGTQSGAWRAERSWHNRGP MMWRPSVLLLLLLLRHGAQKPSPDAG PHGTGRVHQAAPLSDAPHDDAHGNFY DHEAFL*REVAKEFDQLTPQESQARLGRI VDRMDRAGDGDGWVSLAELRAWIAHT HQRHILDSVSAAWDTYDTRDGRVWE ELRNATYGHYAPGEEFHDVEDAETYKK MLARDERRFRVADQDGDMSMATREELTA FLHPEEFPHMRDIVIAETLEDLDRNKDGY VQVEEYIADLYSAEPGEEPAWVQTERQ QFRDFRDLNKDGHLDGSEVGHWWLPPA QDQPLVEANHLLHESDTRDKDGRATKAE ILGNWNMFVGSQATNYGEDLTRHHDEL
2094	10145	A	3026	2	860	

2095	10146	A	3027	2	1681	FGTLGSAFPESC PFQKEDGMKIFQIQGIH VQERVTFKDVAVVFTKV*LALLDKAQI NLYQDVMLENFMNMLWIPLPVSFQLG SANGESQQEIQGRDKSEVRIFIPP GFSLEV AVEWLYSISIDQRDAHPKTDPKLRPEEA QRKSLSRNVKMHC FVKPRAAPQTEPTLE PTLFPSYPGVRPVPWRMRKEAYGLQSPE SPARSSGHSQGYPGEDLHRAEQRPERFA GSAWTWSLQRLATWKRIQRTGQNTWLE ALANLLANMTQLPGHFSTFLVSAPHAA EKPLLHSILTHRPVHLLATVTLPAEEAP LMADITAQAILTPQLCSGTL LLAHVAAR AHADTNLQHV GIPAGDTTGDMASMTLL PGSDTVDLKDTAPCIVAAPVPAMAKKG QGIAQAIASEGANPRPWQLPRTVGPVVN GEGKCGVGAPRVPTALPSGAVRRGPPS SRPQTHQQLPPCAWKRCRHSTPAHENSQ VGYTLQSHRGRDAQGLGSSSLASACLD VRHGVKG DYFRTLRFNDCPAGFQTGMG PAAPLFLCLISPFQNGGIYPKAVAPLYLGS N
2096	10147	A	3028	51	569	SLRTVPPHYLQGSPTPIPPSSLG PASGTR RVES/CVAAPNEQEGSSKGGARPV TICDS QNRPCPPPPSPALPQADPSLKTWLLN HIRWDITDSMICMEDSS**GFK/PNKDSIK VQVRLRGVQGVGHCMGGAALPSTSLSS CLTPFPAPLNSRHTTLAPPLQPENPAQR TTP
2097	10148	A	3029	2	395	
2098	10149	A	303	2	519	FPLFLFL LLLAFPVALT TTRRIQGV PQTL VLQAKRVNTSRPHPD/GS/QPPTSASFNQ LNPITNSTPQLRSHVASGYVG*KQM QYP H/PPQHAPAPPQPCPWQVDTFLPAPTRPL LGS GPGSPRRSPGGAPPA GKGPA GPE CPPTAQRPTT/RQYLGPLFKGDPRNSPRE KPRS
2099	10150	A	3030	2	1038	GLLEPFSKLLSFVIQNAVFTLAYLVELCG LCYRAFTKERDKFYLSRSGCSKSFCRRL KLKSPDPDTNLLLVQFILPDAGTKLD*V NNPEQADDSLCTWDVGTAAAMECVRQY INEVLDFMADMHTLTKLKSHMKTCSQA SDEDTFGGHLKVGLAQIAAMDISRGNH RDNKAVIRYLPWLYHPPSAMQQGPKEFI ECVSHIRLLSWLLGSLTHNAVCPNASSP CLPIPLDAGSHVADHLIVILIGFPEQSKTS VLHMCSLFHAFIFAQLWTVYCEQSAVAT NLQNQNEFSFTAILTALEFWSRVTPAIL QLMG/HINKVMGRKWVLLSMWISLMGG NLPGNAIWT
2100	10151	A	3031	3615	5322	EVPPNPACYQHQA*SVCLCHLKSSLTSS RR*/CTDKCHDCGAILEEYDEETLGLAIV VLSTFIHLSPDLAAPLLDIMQSVGRLAS STTF SNQAESWPPTASSRSCSKARSKVIH PLRIQAPQICLIPDTQTLNPIVD FPDGTFL RTLASSLMDFNELSSIAALSQLEGLNNK KNLPAGGAMIRCLENIATFMEALPMDSP SSLWTTISNQFQTFFAKLPCVLPKSLLE PFSKLLSFVIQNAVFTLAYLVELCGLCYR AFTKERDKFYLSRSVVLELLQALKLKSP LPDTNLLLVQYENKMNEKAERLV LKL LNSAQQQFQFICADAGTKLAESTILSKQ MIASVPGCGTAAMECVRQYINEVLDFM ADMHTLTKLKTSVLHMCSLFHAFIFAQL WTVYCEQSAVATNLQNQNEFSFTAILTA LEFWSRVTPSILQLMAHNKVLP MWLPM IQSNIKHL SAGLQLRLQAIQNHVNHSLR TLP GSGQSSAGLAALRKWLQCTQFKMA QVENPVLGKQPLNFILYEWTPSAPQCQH SGLAIMGLKTNNLDPQAGWGNHIGYLY

						NPLS
2101	10152	A	3032	3	1078	FFSSVFPAAIEPGERASARRRVSRAGCLA LTLPALLLVTHQVPAEAAVSRAMAEAT ALESLEMGFPRGRAEKALALTGNQGIE AAMDWLMHEHDDPDVDEPLETPLGHIL GREPTFSEQGGPLKDLVLAAGEGKPALS */EEERQEQTKRMFGAWLAQKGSREIRE EREGRE\ALERERQRR\RQGQELSAARQ RLQEDKMRR\AAAEERRREKAEELAAR QVRREKIERDKAERAKKYGGSVGSQPPQ \VAPEPGP\VPSSP\SQEPP\TKGEDDKCRI Q\VR\LRWDPH*PQTFRAREQLAAVRL\Y VEL\HRGEEL\GGGARDPVQIASVAFPRR AFLRSLTMER\PLQELGMAAKTRNQD
2102	10153	A	3033	2	565	IHFQQEHWPSQLLRESLEDMMMLHSALG LCLLLVTVSSNLAIKKEKRPPQPLSRG\ WGDDITGVQTYEEGSLCSKK*GSH*WV IHHLGDCQYSQALKKVFAQNEEQEMA QNKFIMLNLMHETTDKNLSPDGQYVPRI MFVDPSLTVRADIAGRYSNRLTYTEPRD LPLLIENMKKALRLIQSEL
2103	10154	A	3034	73	262	
2104	10155	A	3035	29	867	PLEGIADNRFPHGETSTLPATFCSPSAPEL ASMSVVPNRSQTGWPRGVTQFGNKYI QQTKPLATL\ERTINLYPLTN\YTFGTKRAP LTRRTSSV\AARF\QRIEGKNFDKIGMRRT VEGVLA\VEH\RLTPWCYLLQLGTNFLP NYLGWLNLTPEGEDEV\GLKTA**PEIPG SVQDGVLAQD\WGPLTDCHWVTWWRP KFLNPPSVSHIFPAHIT\KPKE\HIRKLFPG SSLQEKALVLQFPKKFTSW*PATPLFELY DNA\PGYGP\ISSLPQLLSRFNFIYN
2105	10156	A	3036	2	817	RARIPKMAAVKDSCG*GEMATGNRRRL HLGIPEAVFVYYFSY*RKMYHYFMKQP GNETADTVLKK\LDQYQKYKFMELNL AQKKRRLKGQIP\EIKQ\LEILKYMQKKK E\STNFNGRPRFFAGRLTLYLQKLSVPPT R*RG/CLGLGANVMLEYDIDEAQ\ALLGK DL\STATKILDSRGGRTLTFL\RDQFTTE VNMARGLLIGDVKKEGNKD\DKNKA LMLGQFKNVGLVFPNMFIKYPPIFYRFD INFGMFNQPRNFKEKINTILFIY
2106	10157	A	3037	3	468	ERIMEWHRHTMTECSAQEPKSHDIYLR LVKLYRFLARRTNSTFNQVVLKRLFMSR TNRPPLSLSRMIRKMKLPGRENKTA VVV GTTTDDVRVQEVPKLVKALRVTSRARS RILRAGGKILTFDQLALD/SPYVRSKGRK FERARCRARRGYKN
2107	10158	A	3038	1	693	

2108	10159	A	3039	105	756	VDHPPYKRTEKVRAQRSPKSQYIYLSLL LKLYRFSGPPEPNSNIQTRVVLKRLFMSP HQTGPPLSLSRMIRKMKLSWPGKQRR VVC/VGPITD/DVRGSRYPKLVCCCTAP *PSRAPQAAILKAGGK\LTFDQLALGLP LKG\CGTVLLSG\PSKG\RKVYRHFRQRP QEPPHKPHQNPTFRSKGRKFERARG\RR AS\RGYKKLTLDPTLLYKKIFA
2109	10160	A	304	444	920	NPSLRCWLGLSPGKLAGARGRTVHVVG GPEGPCTHSTSTKRMARHPEVSTGGGG KAP*/SQGIRGQAGQG\GARSGVAGNG GGGARSLRLSPAAASATA/SGPEGS\GP GSGGRSRVPVEAAPP\CP\SDVVP\AARGA AAAGPGGTWLPASQVGPSPGWG
2110	10161	A	3040	301	390	
2111	10162	A	3041	1	737	MWFAYSPTFCHDWKLPEASAEAKRMP ALCFLYSLQHPLCEDGVCAHEAGVWGI GGLIAYVKGYEEVSQKFTSIRRVRGDNY CALRATLFQAMSQAVGLPPWLQDPELM LVVFVAILLHSHLECREPLIPILSLYMGA LVRCCTLCLGYKNIHDIIPDRSGPELGG DATIRKMLSFWWPLALILATQIRSRPIVN LFVSRDLGGSSAATEAVAILTATYPVGH MPYGWLTETRAVYPAFDKNNPSNKLVT SNTVTAHHKKFTFVCMALSLTLKDSVQ KPDISLTGRLVQTLPTMRHQRGESKDV APLASWLSEPTSSSEASQTSSKLTINSQG EGKAKQKLECGTSLIVLRSCENQERIK AAEKRNRSWTTLCGLGAWRPLLFELPVI VQTPDQTNRFQFRYPAKTQSGLCSEFFHS FDLLTLEAFVKVWFPGLLILLCFVMFW TPNVSEKILIDIIGVDFAFALCVVPLRIFS FFPVPVTVRAHLTGWL/QGPGAHAGCFC SHFASQSPGMPGAPAHDPDLLVHGRTCA LHHPVPGLLQEHSRHP*QKWPGAGGR CNNKKDAELLVAFGSNSGHTENQSAYC QPLCFPGPWWQFCSHRGSGDFDSHIPCG SHAIRLVDGNPCCVSCFRQE
2112	10163	A	3042	889	1577	RGKKNVTVLKKIRSQTIRESDRLRYKEHI PLPKLEFPLDTKVFGLLGEDMVCTGPTG VALKGPHWKYIGIIDEKDLVNFSYQKL VFRTSWSTWLPGRPVLLRDCSLKTPKP AAQAQEP\TVHLRPRRQGFSGSMRSLID WVSLTHSDGDVIVPIVLSNERYHWPVL GWVGGVDCDEFFRVVLGEARLHLDGV AHQH*GKKEPFPTCSKTTSVSHLVEVVP QKLSWVI
2113	10164	A	3044	2188	2706	RESIDQGFSNFFFLRRSLDSVTQAGVQ WHDLSLQPPPPGFK*K*FSCLSLSS*DY RSPATMPGLIFLYFFFLVETGGFTVLAR MVSIS*PQ/CDPPASASQ\SAGIQKNSFFFL ETRVSAFVAQAGVQWCDLGSPQPPPPG V\QPFSCSLSPSSWDYRRTPPGPANFAVC N
2114	10165	A	3045	33	198	
2115	10166	B	3046	6	125	MAGQFRIYLDWPLLILSQIVLMQTVYYG SLGLWLALVDGL*
2116	10167	A	3047	1	110	
2117	10168	A	3048	260	798	RPGHAQTLGSPSLALGMAGQFRSYVWD PLLILSQIVLMQTVYYGSLGLWLA\VVD GLLRISPLDQMFDAILGFS/TPFQGRLS MMSFILNTLNSA\LGLLYFIRRGK\QCLDF TVTVHFFHLLGLLSNSSFSPSGG*TLV GLGPKPVVALHSLAVIGEYLCMRTELKE IPLNSAPKSNV

2118	10169	B	3049	1	528	MRRQDCPNPMKKIRSSSPVQQERVSSLY FQSARGGLGVDVSALGTVTHVSPSSAR VAMAMSAERGCSMGHIMGYRGVGRFT RGNGDHARVGYKGNPPEVSISGYDDNW YLGRDATLSCDVRNPEPTGYDWSTTS GTFPTSAPVPRAPSWSSQTQWTVCSHLRL HITNAVDGPR*
2119	10170	A	305	504	935	AYLQSSMIAQSRATRTGLATWHQHAKL DRHFPRLSSRHPLFETCSSPPCKRWGEKS HFRRACKEGRESAPCGIPRPRFKVHTPRG KLRRMRPVPRRFGGSRGPRSRKRRTK QPR*PAAPRDSGPAPAAPPTPRPSAARN GG
2120	10171	A	3050	31	206	GSSCRSRSLVVVLSIVLEGPAPAPGDPQT SPSALDKLKEFGNTLEDKARELISRIKQS ELSAKMRVPLRPRHEALPVAPGPGGGSV DRLGRPSPPRGPPDVSQCLG*AEGVWK HTGGQGSNGTHQPHQTE
2121	10172	A	3051	21	353	SAAGTGPEPEPEPHRHLNRPADRPQSG PRASGRAQSPGPSMARAAALLPSRSPPT PLLWPLLLLLLLETGAQDVRVQVLPPEVR GQLGGTVELPCHLLPPVPGLYISLVTWQ RPDAPANHQNVAAAFHPKMGPSFSPKPG SERLSFVSAKQSTGQDTEAELQDATLAL HGLTVEDEGNYTCEFATFPKGSVRGMT WLRVIAKPKNQAEAQKVTFSQDPTTVAL CISKEGRPPARISWSSLDWEAKETQVSG TLAGTVTVTSRFTLVPSGRADGVTVTCK VEHESFEPPALIPVTLVRYPPPEVSISGYD DNWYLGRDATLSCDVRNPEPTGYDW STTSGTFPTSAAVQGSQLVIIHAVDSLAFN TTFVCTSQPNPWALARAEQVIFVRETPO ALAPRCGPAGVGGRGDTAGAAASGW GVLGLHPCMRVRRRRKSPGGAGGGASG DGGFYDPKASGVGWGPRLLDTSSPWS HGTRWQG*GGGGGGREGREPRPHVASTP STSRMTWSPSWTAPSSHGG/PVYV*PGPP WPGPLPSCRRDRRRRRCCGRCCCSW KPEPRMCEFKCYPRCEASSGAPWSCRAT CCHFLDCTSPW
2122	10173	A	3052	1	1620	MARAAALLPSRSPPTPLLWPLLLLLLLET GAQDVRVQVLPPEVRGQLGGTVELPCHL LPPVPGLYISLVTWQRPDAPANHQNVAA FHPKMGPSFSPKPGSERLSFVSAKQSTG QDTEAELQDATLALHGLTVEDEGNYTC EFATFPKGSVRGMTWLRVIAKPKNQAE AQKVTFSQDPTTVALCISKEGRPPARISW LSSLDWEAKETQVSGTLAGTVTVTSRFT LVPSGRADGVTVTCKVEHESFKEPALIP VTLVRYPPPEVAISGYDDNWDLGRDAT LSCDVRNPEPTGYDWSTTSGTFPTSAPV AQGSQLVIIHAVDSLNTTFVCTVTNAV MGRAEQVICVRETNPNTAGAGPTGGIIGGI IAAIIATAVAATGILICRQQRKEQTLQGA EEDDEDLEGPPSYKPPTPKAKLEAQEMPIS HLFTLGA*EHSPLKTPYFDAGASCTEQE MPRYHELPTLEERSGPLHPGATSLGSP VPPGPPAVEDVSLDEDEEGEEEEYYLDT VINPIYDALSYSSPSDSYQKGFMMSRAM YV

2123	10174	A	3053	408	2708	DPSSGHWLHWSIRPPAAGWSPRSGRAA ARAQSPRRREHGAPGRTGPGGGPRLLLL AVLLAAHPGAQDVRVQVLPEVRGQLGG TVELPCHLLPPVPGLYISLVTWQRPDAPA NHQNVAAFHPKMGPSFSPKPGSERLSF VSAKQSTGQDTEAELQDATLALHGLTVE DEGNYTCEFATFPKGSVRGMTWLRVIA KPKNQAEAAQKVTFSDPTTVALCISKEG RPPARISWLSSLDWEAKETQVSGTLAGT VTVTSRFTLVPSGRADGVTVTCKVEHES FEERALIPVTLVRYPAEVSISGYDDN/W YLGRTDAT/L*ACDVRNPEPTGYDWS TTSGETPTSAVAQGSQVLVIHAVN/SVLFN TTFVCTVTNA/VGIGAGAEQVIFVRETP RASPRDVGPLVWGAVGGTLLVLLLAG GSLAFILLRVRRRRKSPGGAGGGASGDG GFYDPKAQVLGNGDPVFWTPVPVPGPME PDGKDEEEEEEEKAEEKGLMLPPPPALE DDMESQLDGLISRRVYTPSPVPGSA GAAAVACTDPVPSSGVHGHNDHKNSSS MFRMKALAAQLSPYKTPNTAGAGATGGH GGHAAIATAVAATGILICRQQRKEQTLQ GAEEDEDELEGPSPYKPTPKAKLEAQEM PSQLFTLGASEHSPKTPYFDAGASCTEQ VGAHGKTKEMPRYHELPTLEERSGPLHP GATSLGSPVPPGPPAVEDVSLDLEDEE GEEEEYLDKINPIYDALSYSSPSDSYQG KGFVMSRAMYV
2124	10175	A	3054	115	467	
2125	10176	A	3055	315	431	
2126	10177	A	3056	53	442	PRVMAM/ATKGGTVKAASGFNAMEA QTLRKAMKGLGTDEDAIISVLAYRNTAQ RQEIRTAYKSTIGRDLIDDLKSELSGNFE QGAGTDEGCLIEILASRTPEEIRISQTYQ QQYGRSLAEDDIRSDTSF
2127	10178	A	3057	186	1268	PRDMAMATIGGTVKAASGFNAMEAHT LRKAMKGLGTDENAIISVLAYRNTAQR EIRTAYKSTIGRDLIDDLKSELSGNFEQ VIVGMKMPT*RDDVQELRRAMKGAGT DEGCLIEILASRTPEEIRISQTYQQQYG RSLEDDIRSDTSFMFKRVLVSLSAGGR DEGNYLDDALVRQDAQDLYEAGEKKW GTDEVKFLTVLCSPEPKITLLHVFDEYQ KDIHRRHIEPEVLNSETSGIFWKIALGLI VKCMRNKSAYFAEKLKYSMKGLGT DNTLIRVMVSSSQKMDMLDIPAHTSKR LLWKSPLYSFINKNRVATSGDYRKVLLV LCGREMIKIPGRDREGSSTLLNFF
2128	10179	A	3058	1	4608	
2129	10180	A	3059	1	465	
2130	10181	A	306	163	387	IRQKKAIFVIVAFKRRGLRKTD/TYYAR GG*FVKNKYRGFIIELGTTGKYFLFCTL AIIDPSDSNIISMEQT
2131	10182	B	3060	109	192	GSSSNEYL YERFGLLAVPSIRSLSVQSK*
2132	10183	A	3061	1	1542	
2133	10184	A	3062	1	4226	EAVLCSSRGRPDSSMPDCCRNAALEARS CQSMTSLSNTVSPTQDGTSSLPRRQSSF AKPPLRALYDLIAPMEGGVVESTEPLG TSRSGFASGTALFWLGDNGKAASPPGVS VSSLENEDNTQCNRLQGYREAAPVD WTQDLALCLLPTLQSLKARTAPHLCVPS SCYKAWYTLAVSKVSGMVEGKAWILL LLAASTHALLQRPQEGDITPLAGSRAAA VSCQARPFSTFSGLMHSSGPVGRHRQLIL VLE

2134	10185	A	3063	2	4195	ALDFPGRFRFTASFIWASVLFETIRHEA EVSTDYKLSLFDLQTSSYQALQRLVLSL GHHDEALAVAERGRTRAFADLLVERQT GQQDSDPYSPVTIDQILEMVNGQRGLVL YYSLAAGYLYSWLLAPGAGIVKFHEHY LGENTVENSSDFQASSSVTLPTATGSALE QHIAVREALGVESHYSRACASSETESE GDIMDQQFEEMNNKLSVTDPTGFLRM VRRNNLFNRSCQSMSTLSFNTVSPTQDG TSS
2135	10186	A	3064	8	665	SAQMAVTTADPRVRPRVRTQLCSLATSN RHAWCILSPEEKSAVTALWGKVVNVDE VGGKALGRLLVVLPVPDRFFEISFGDL STPDAVNGQTPKVKSWSRKCLGAIFS DGPFGFTWDNLQGSPLTLK*ACTC*QAC TWDP*RTFRLPGGNVAGFVVAWAHSL GKEFQPHQCKLA*SRKLVGLVLAKCPW PHKYHLKLAFLAVQFLFKGLWSLKT Y
2136	10187	A	3065	8	531	SAQMAVTTADPRVRPRVRTQLCSLASLI QTRMVHLTPVEKSAVTALWGKVVNVDE VGGKALGRLLVVYPWTQRFESFGDL SVTP*SLLRANP*GERLHGKKSASVPFSDG LAHLADN\KGTFAHTEVSLHCDK\HRG SLKNFRLLGQRAWSVVAGPIHFWEKNF NPTSCRLA
2137	10188	A	3066	91	951	TPHFHQGTGKRAAWPTWFNPAGPGIFLR R*GPGKAQRRRSIAPRPAVGFPSPGIVRC PHGFGYPHERLRAGPRLPALRKLVRAGI HKEGWPGPIG\SVDPKPDQVPRSPLOA NVQRLKKYASNFI\FPQRSRAPKKGDR SVAEELKLGHPSLTGPVMPVRNVYKKAE KARVITEEEKNFKAFA\SLRMARANAPAL RHTGQKEPREAAEQGC*KAHNKALPGD LESVGQSCWVSTWCVSWEQLGLGWGFT AVTSSCQGIWGF\LERQSKPWIMLNLVL KPCWLF
2138	10189	A	3067	1	1603	MKLLKSILLTILLDFSLHTCASLVPALQW ILLLLITVLVVEGIAVAQKTQDQONIGK HIPATQCGIWVRTSNGGHFASPNYPDSY PPNKECIYILEAAPRQRIELTFDEHYIIEP SFECRFDHLEVRDGPFGFSPLIDRYCGVK SPPLIRSTGRFMWIKFSSDEELEG\GISEQ IIPFIPDPDFTYLGRYFKFPS/HDCQFE/HL RELDGDSAALVR*NKRRKQNQGQAFDVC IWDL*/MPFQKLKIYLRFLDYQMEHSNEC KRNFAVYDGS\SIENLKAKFCSTVAND VMLKTGIGVIRMWADEGSRLSRFRMLFT SFGGASPAQAALSFC\HSNMCINNSLVCN GVQNCAYPDENHC\KEKKKAGVFEQIT KTHGTIIGITSGIVLVLLIISILVQVKQPRK KVMACKTAFNKTGFQEVFDPPHYELFSL RDKEISADLADLSEELDNYQKMRRSSTA SRCHDHHCGSQASSVKQSR\TNLSSMEL PFRNDFAQPQPMKTFNSTFKSSYTFKQ GHECPEQGP\GKDRVMGGRFPC
2139	10190	A	3068	163	392	HQELLFLLSSRRLSRSPSEGSRTM/AL GEKKIGFPSLLWCFPPSAAGASSQIKWIQ PCGSGAPPLPGCSGKRR
2140	10191	A	3069	190	352	HQELLFLLSSRRLSRSPSEGSRTMVL EKRK*GFHPHSC\RAWRLKVCEGKS
2141	10192	A	307	131	395	LWAARA\VLTSLLPTGSPS\AALSGCCRP GGQGRYSVAACRGRAAGGVAPVPAHT* AAAPLGHFS\LLGIVSPAPEPHFELGHYY SGLS

2142	10193	A	3070	1	794	MSRERPPGTDIPRNLSFIAAL/DGARLLP* PAAQPRGGAGGGARRGRDAVRGPIPRSR TESGP/SGPDLHQPEAAGPGRP/CSRSPDT RKRVRFADALGLELAVVRRFRPGELPRV PRHVQIQLQRDALRHFAPCQPRARGLQE ARAALEPASEPGFAARLLTQRICLERAEA GPLGVAGSARVVDLAYEKRAPAAYAGP APPPPRADRFAFRLPAPPIGGALLFALRY RVTGHEFWDNNGGRDYALRGPEHPGSG GAPEPQGWIFI
2143	10194	A	3071	133	1079	ARRILQNFSLYPSGEDLKGYKVIQAQTA FSANPANPAILTEA/SAPIPHDGNLYPRLY PELSQYMGLSLNEETRANVAVVSGAP LQGGQLVVARPSSINYMGGLLLTG*LMLGI RRSR/II*GKGFREVILCKDQDGKIGLARL KSIDNGVIFVLVQANSSSLIGLV*EFGDQ VLQINGENCAGWSSDKAPRWSNRPF*E KITMTIRDRPFERTITMHKDSTGHVGFIF KNGKITSIVKDSSAARNGLLTGPNLCGN SMGQNVIGLKDSQIADILSTSGTVGTITI MPAFIFEHIIKRMAPSIMKSLMDHTIPEV
2144	10195	A	3072	242	512	AWVPCLLRHCDREPAPRGRTSPSLWPQE GT/P/GQDRGGGPWLGQPSLQ*QRSHG HLPAPQGGLGPHDNSSFRPGRGGAGRG QGIEQGSK
2145	10196	A	3079	184	561	GQRGRGLRKSGSAGAGMMEHTHTEA HPHTWVCTSTHTCTHTLGDDTYMHLHV CVSIHMYV/CPHT/MSLALGMSAHTLHM FSHTKLLSR*HAGRHVPMPKQVTCTYVP TPSPTHVLGHACGCRPHAS
2146	10197	A	308	327	598	GPARNPAQCRWAGTAGGPSTLSAAAGP GAKPLMPGAA/GAGQAGWLL*VQGPPSP RPPGTLAGPQARHTALVPARASPTPPC KLRGGLRP
2147	10198	A	3080	63	426	GLLFPQHCPAHRPRRCLRPRSSAGRGA PALSRPSALCHLCLPRSSLSAPRSVSPAA TPHH*ALQGLVEPWGPLHSAPLHR*APA SGPAGNVRAWPACRGWCLSRPLPGTV GEGAASRAF
2148	10199	A	3081	1	588	
2149	10200	A	3082	81	289	
2150	10201	A	3083	3	387	
2151	10202	A	3084	2	290	RPPGPSRSPPAPPPSSRRPLPKMACCACC ARVTAGVPVGLGWVGPGQORSPTVR ARPPSGLLGFEARPLVPWTSRSPFRCQCT ACGHLVEFVL
2152	10203	A	3085	2099	5383	VIQTSLSPPATNDRGHPFSLDNWTGKP VHSMVAHLDAVTCLAVDPNGAFLMSG HDCSLRLWSLDNKTCVQEITAHKKHEE AIHAVACHPSKALIASAGADALAKAHKE QGGKRLHLPVEDDGFAGAPPCEEV QGTNAQFLGCKGLCPSPAPGSEHTRKD GGRCLDTQDMAAFCWDSHLPFRKKGAE LQSPPLLPQIPAPGSGVSFHIQIGLTREF VLLPAASELAHVQKLACSIVDQKRPRVQ VPRP
2153	10204	A	3086	2	426	EDGSLATFLGRRQFAFAEMRHSKRTHCP DWDSRESWGHESYRGSHKRKRSHSST QENRHCRPHHQFKESD/CCSMCIPLEASH SVEEDTHPSHYLEARSNERDYDRRYV DEYRNDYCEGYVPRHYHRDIESGYRIHC SRS

2154	10205	A	3087	39	1514	GDGAAAILWGVCRSRGGKTA VWRHFS AEGPFAFAEMRHSKRTHCPDWGSIES\W GHESYRGSHKRTIRISHRS\QENRHCKPH HQFKESDCHYLEARSLNERDYRDRRYV DEYRNDYCEGYVPRHYHRDIESGYRIHC SKSSVRSRRSSPKRKRNRHCSSHQSRSM KSVDTLGEGAFGK VVECIDHGMDGMHV AVKIVKNVGRYREARSEIQVLEHLNST DPNSVFRVCQMLEWFDHHGHVCIVFEL LGLITYDFIKENSFLPFQIDHIRQMA YQIC QSINFLHHNKLTHTDLPENILFVKSDYV VKYNSKMKRDERTLKNTDIKVVDFGSA TYDDEHHSTLVSTRHYRAPEVILALGWS QPCDVWSIGCILIELYPWGSQFFRLQ**K EHLAMMERNIRTPYPQHMIQKTRKRKY FHP*PSLDWDEHSSC/AGRYVRRRCKPL KEFMLCHDEEHEKLFDLVRRMLEYDPT QRITLDEALQHPFFDLLKKK
2155	10206	A	3088	2	175	
2156	10207	A	3089	1	534	
2157	10208	A	309	1	630	
2158	10209	A	3090	1	325	LEKERDFY/FGKLR/NIELICQENEGENAP VLQRIVDILYATDEGFVIPDEGGPQEEQE EYYSLGPAEQHGYSLLQIMCLTVKYSLL LSLEDSLVSFHKQKVPLLKVPVF
2159	10210	A	3091	3	930	SSRGRAGGVWRFERDEDTGAGCGQW TRFCREPKMAVNVYSTSVTSDNLSRHD MLAWINESLQNLTKIEQLCSGAAYCQ FMDMLFPGSIALKKVKFQAKLEHVEYIQ NFKILQAGFKRMGVDKIISVDKLLKGK FQDNFEFVQWFKKFFDANYDGKDYDPV A\AR\QGQETAVAPSLVAPALNPKKPL TSSAAPQR\PI\STQRTAAAPKGWALGV VRKNPGVG\NGDDEAAELMQQGQRI*NL LFEDLGKGERDFYFGKLRNIELICQENEG ENDPVLQRIVDILYATDEGFVILDEGGPQ EEQEY
2160	10211	A	3093	337	903	CNRNTSTLTRCTNVCINTPRPAPLLA/P QATLHFQFP*/PPLPL**QPQALSATRLSL/ VCHGSGRLRLPLLQAAPGWLPGLSL FSCRGRVLLC*PGWSCYLGLKLSHLGL PKCWDDRPPSPASFEWAPTRPNPLPQ HGTQSQCFLSVGEAPRPHSGSAYYTNQC LQCSRPCSERTRRLGVLLPK
2161	10212	C	3094	821	1051	MAMELINNKHWPSVRALCWNTVLA YVI GEGVNSGRSCLAQTLVTFRKGSAFRD WVLGPAPGGNGALRLFRKILFC*
2162	10213	A	3095	1	594	
2163	10214	A	3096	3	761	TSRGRVGTQAGEPRDLRPPPCPSPLRV AVV\CLEQPERGAWAHNIPQPNGDSAV RSFG\TGTHVKLPGPAPD\NPNVYDFKTT YDQMYNDLLRKDKELFTQNGILHIAGR NKRIKPGPERFQNCDFDLILTCEERV YDRVGWKI*ISR\EQGDLPSPVHVVNLDI QDNHEEATLG/ARFLICE\VCQCIQHTED MENEIDELLQEFEEKSGRTFLHTVCFIL FSFLDICF
2164	10215	C	3097	129	314	
2165	10216	A	3098	1	1434	
2166	10217	A	3099	1	831	
2167	10218	A	31	1	365	FFFLLLILFLLLIQYHYIFYTFLWLRLLV LTGSI*C*KCKITMNST*IE/TVFKDYEH LYVCKLKNLEKTDKVLTIHNFRLNQ*E PEVLTRAKMYKIYNDIE

2168	10219	A	310	101	520	RRLOKPGCLIWTRGST*CPLTLLPSRGA GLGTC/KPAMPEPPTHSMGTCAARASPT STTPCST/CAQSHRPGRNKQPKG*GMRA HGAGLAGSSTCSPGVGSTG*SQGL
2169	10220	A	3100	1	1251	
2170	10221	A	3101	1	5355	MAGWLRAWLDGWLTGWLAGCMSEW MMDGWMDGWIDGWMDGWNPIVPETQ VLHEEIELPGSNVKLRYLSSRTAGYKSL KITMTQSTVPLNLIRVHLMVAVEGHLFQ KSFQASPNLAYTFIWDKTDAYGQRVYG LSDAVVSVGFYETCPSLILWEKRTALL QGFELDPSNLGGWSLDKHHILNVKSGIL HKGTGENQFLTQQPAIITSIMGNRRRSI SCPSCNGLAEGNKLLAPVALAVGIDGSL YVGDFNYIR
2171	10222	A	3102	205	393	
2172	10223	A	3103	2	158	
2173	10224	A	3104	1	1923	MRPPPALALAGLCLLALPAAAASYFGRQ SRSLMPSRDPHAGALSAAILASGEPSPR TPSPPSAFALRSGDREGWVDGWDGLFPV SGQRIVRVQGEWGWKPRTSFAFDYNTKCF GILIREYANIRRAGNIYVFGPLMNDPCQQ MASSLQAKTWAFAHQCSAAKGQLHTE LLHEDALKKWTSPAMGWERSRSHDKPR RLSRPLVPPRPFPRAPCAGSSRVRRGLAD QKGQQFPTQSRLLPTGSASFTPDRCAES WCLRPRALIGCSLTSSNPAAPRWAREGG GCGWRCASDKPESHFQSQVDFVPTIGGV APPLHGRGQTSSSAPLLMEPHLLGLLG LLGGTRVLAGYPIWWCWAQGCVAVNI FADIYLWVRILILHLIYHILYAGKWSQ WAMGAGEKVLREAEATRFVSRQPVPR EHSGYPRQVHEIQSCMGRLEDTADKQSG HIVENEIQASIDQIFSRLELEILSSKEPPN KRQNGR/LFRVNSLKYDVQHLQTLALRN FQHRRHAREQQERQRERAFRC/RSKPFTT *TLDTTITNWDRIHLQF*LPSLPRKFHN GHGIDLILDGHNLDGLRTQRLATLKGT QKKILDIANMLGLSNTVMRLIEKRAFQD KYFMIGGMMLTTCVVMFLVVQYLT
2174	10225	A	3105	1	566	FSGRPTPRPGAVACRAGDMDPLFQQTH KQVHEIQSCMGRLEADKQSVHIVENEI QASIDQIFSRLELEILSSKEPPNKRQNAK LRVDQLKYDVQHLQTLALRNFOHRRHAR EQRRRRQAEELLRTFTTNGTQKKDPLTL PNMLGLSNTVMRLIEKR/AFPODKYFMI GGHPA*PLWALFLWFQYRT
2175	10226	A	3106	53	151	
2176	10227	A	3107	432	649	GSHPFQAQGVQWCVCSLQPLNS*SSNL SLHSCWDYKFKLVCICKGDGKEFLMHMI LKKDVTLEKLIPRYV
2177	10228	A	3108	2	677	PPSFQPSDGRGDASGRNAAMAAQGEF QLVLVGDDGTGKTTFVKRHLTGFEKK YVATLGVEVHPLVFHTNRRPIKFNVD TARQEKFGGLRDGYIQAQCAIMFDVT SRVTYKNVPNWHRDLVRVCENIPIVLCG NKVDIKDRKVKAKSIVFHRKKNLQYYHI CAKSNYNFEKPFLWLARKLIGDPNLEF/V AMPALAPPEVVMDFASTYEHDLVA QTTAL
2178	10229	A	3109	1	549	

2179	10230	A	311	411	640	ADIDSRGPKMSLQSSS*SRGSWMSGN*W SFSSDPTYSGSGGSAPSPINPTQGAEECGR TAPGLAGSSTCSPGVGSTR*SHFRPTHPS LENLEDIALTNVLQNRFFVRAEPASLKSPV IALLCMSDLTVGTTVTQLQHLNMTMGVIG SQDGRDQVAALNHQKQGDLPWFPRVTV LWRKGIDQTFWGLLNTGSELTLPIDPK CRCSPPVKVEAHGCQVINGVLAQIQLTV GLVGPRPVPTTQGAEECGRTAPGLAGS STCSPGVGSTR
2180	10231	A	3110	2	822	APALAPASAASPAFEFTLPPSFQPSDGR GDASGRNAAMAAQGEQVQVQFLVLVG DGGTGKTTFKRHLTGEFEKKYVATLG VEVHPLVFHTN\RGPIKFNVDTAWPWR NSGGLRDGLYIPSPRVPIIMFD\VTSR\VT YK\NVPNWALGDLVTSV/CENIPHLCCVA NKV\DIK\RKVKAKSIVF\HRKENF\QYY \DISAQKVPTNLKKPFLWALLGSLMGDP* LWNLLPMPLLSPPPR/EVVMPEQLWPAT SMKHDLEVASDNCLPPDEDDDPVKK
2181	10232	A	3111	116	599	PQVISLPKCCDCRCEPLHLAAEKSPTVR ETTKVPGEAKSEFHKNKMDGRGGKPMG GCEGPDAMYVKLISSDQWHE\FIVKRDHG LT\SGTE*KPMLSGPG\QFAGGKTH\EVN FR\IEPSHNAIRKVCNVFFTYKV\RATPNS SHPRFPEFPNLAPGNLHWELA
2182	10233	A	3112	84	348	KYTIKTKTVLKKSGIFSTCPKPKSCYDFV PLNAGPIPPKSILGTNGPHTHLEMLD*RL NKPTPISQRSPLTQVGHR*TRPTRRRPR T
2183	10234	A	3113	122	518	KSLEFFPPALSPSPALILCHLMQAPYHLK VSWEPTDPPT/ALEMLD*RLPLPHA*HKG ETHTCGPLSDHTFKAPPDPLQICLLSHQG PASPSQQTHPYQPSEVTADSGGTQVDKA NQEEATNTKHHEQEEEQD
2184	10235	A	3114	1	1452	MSAYCLQLGGLQALLALTQTPGHRDSL DAQPAAVLVCGWPLASFSERTIVGHK EWTIKDKLKNKFKDEFDIVSLPCTLGSH QPQDPMLKLPWSITYGRCLAPGDHTVSL VIKLVESASLSLAVSNMLSDMIRWMPAG CGRCLLGLQSESAVCGQCVGMEQVCR VSGPHIRWIPQQLHSCLFFLYPSPYPLEP SSNTSFICPHSRTYNGSLLSCIPNSAAAAA PPTPQATSFPSCPSPKQRLPTGRVVEGSD HRVHEARLPGNHSRSGVDSAPPTLAHA GLLLTEKTLKENGRRAEALRVGVHWR HGTSQGPGRTLWAEKVKPHFRTRGQVY DASSAPVTEHTATELPAGNQGSQPLQE GGLEGTVVTLVSWKVT/MVSRRC*CRY GQRPH/HHLKVLGNQR\PTHLEMLD*RL PLPQRLTPKGKHTPVVPPLLNQPFKAPPD PLQICLLSHQGPASPSQQTHPYQPSEVTA DSRWDTR
2185	10236	A	3115	1	414	

2186	10237	A	3116	112	1655	QEHLQRASPRLLQLLPPLPPPPPPAFGGS LSSLGSRMSRQVVRSSKFRHVFGQPAK ADQCYEDVRVSQTTWDSGFVC/SVNP* VLWALICEASGGGAFLVPLGKTGRVDK NAPTVR*HS/APVLDIAWCPHNDNVIA SGSEDCTVMVWEIPDGGLMLPLREPVV TLEGHTKRVGIVAWHTTAQNVLLSAGC DNVIMVWDVGPAGAAMLTGPEGPPDA NYRGDWEFADGGICTSCRDKRVRIEPR KGTVVAEKDRPHEGTRPVRAVVFVSEGI LTTGFSRMSERQVALWDTKHLEESPV/S LRKLHTRNGVPVAFGPDNTNIVYLRGK GASGPIRVFENTSEAPFLHYLSMFS/SKES QRGHGLHGPNGLEVNKICEIAGFYKLH DGR/CVSPMPKPVPKSDLAFOEDLGPTQ PQGPDPCLHGLKEWLGGRDAGPLPSSPL KDGAYVPPKSREL RVNRGLDPGRRRAA PEASGTPSSDAVSRLEEEMRKLQATVQE LQKRLDRLEETVQAKL
2187	10238	A	312	375	519	GMLFPKQITPQSI*VETNAKNV*GGDIAS FMGSTHALFEFPDSHSA
2188	10239	A	3122	200	469	RGGGAGPLTGHVGLLGHIAAAADQFD RLAAGICGHSHPHPLPGLHCCAPLWS GPQQN*PTADVAESLQLVTVHQSETEG EFTECNN
2189	10240	A	3123	1	2520	
2190	10241	A	3124	1	1950	
2191	10242	A	3125	1249	2166	
2192	10243	A	3126	1	2424	MVAIHSALESSLLFQEQSLLYLVTVHE NLNFMAIGFTDGSVTLNKGDIRDRHSK TQILHKGNYPTVGLAFRQAGKTTHLFVV TTENVQDLQFIVAGDECYLYQPDERDC RDDHVFSLYFMIPFFFTL/VIALPQLVPIT GVCGRYLLLCWQTFAVVGILGHFSKT MLLFFMPQVFNFYSLPQLLHIIPCRHRI PRLNIKTGKLEMSYSKFKTKSLFLGTFI LKVAESLQLVTVHQSETEGFECECNM TLINLL/QSPWAHT*EKPHIAAAAAAFS FLCDHWHPGRFLPSADY*LDFTYGFLLQ ATLSLSIPSLQPIGTIGKLEPSYVIRKFLD AQRIHNLTAYLQTLHRQSLANADHTTL LNCYTKLKDSSKLEEFIKKSESEVHFDV ETAIKVLQRAGYYSHALYLAENHAHHE WYLKIQLEDIKNYQEALRYIGKLPEQA ESNMKRYGKILMHHIPEQTTQLLKGLCT DYRPSLEGRSDREAPGCRANSEFIPIFA NNPRELKAFLEHMSEVQPDSPQGIYDTL LELRLQNWAEKDPQVKEKLHAEAISLL KSGRFCDVFDKAWFQQIMHYHMQHEQ YRQVISVCERHGEQDPSLWEQALSYFAR KEEDCKEYVAAVLKHIENKNLMPPLL VQTLAHNSTATLSVIRDYLVQKLKQSQ QIAQDELVRVRYREETTRIRQEIQLKAS PKIFQKTKCSICNSALELPSVHFLCGHSF HQHCFESYSESDADCPTCLPENRKVMD MIRAQEQKRDLDQFQHLKCSNDSFS VIADYFGRASPNFIFYVV
2193	10244	A	3127	1	411	
2194	10245	A	3128	2	243	
2195	10246	A	3129	1	1176	
2196	10247	A	313	640	975	VPWEAGGSMISCFYPRQSEQSHNIVKSK RPVTFQQNRCQKGGGHSADVSTCQCF QCSHREQGFAKPQFSYL*NGGSNSFYLT GCFDNLITSVFCSVRFIHGPKAIK GK YH
2197	10248	A	3130	2	496	
2198	10249	A	3131	2211	2568	

2199	10250	A	3132	100	2726	AMMGPLPGPHLLDPLLPSSFCLPPGIV CDSCRGSLVFGDMEGQIWFLPRSLQLTG FQAYKLRVTHLYQLKQHNILASVGEDEE GINPLVKIWNLEKRDGGNPLCTRIFPAIP GTEPTVVVSLTVHENLNFMAIGFTDGSV TLNKGDI TRDRHSKTQILHKGNYPVTGL AFRQAGKTTHLFVVTENVQSYIVSGKD YPRVELDTHGCGLRCSALSDPSQDLQFI VAGDECYLYQPDERGPCFAFEGHKLIA HWFRGYLIIVSRDRKVSPKSEFTSRDSQS SDKQILNIYDL CNKFIAYSTVFEDVVDVL AEWGSLYVLTRDGRVHALQEKDTQTKL EMLFKKNLFEMAINLAKSQHLSDGLA QIFMQYGDHLYSKGNHDGAVQQYIRTIG KLEPSYVIRKFLDAQRIHNLTAYLQTLHR QSLANADHTLLNLCYTKLKDSSKLEEF IKKKSESEVHFDVETAIKVLRQAGYYSH ALDLAENHAHHEWYKIQLEDIKNYQE ALRYIGKLPFEQAESNMKRYGKILMHHI PEQTTQLLKGLCT*LSAQPRRPQR*GGPR LAGPTLRSFIPFANK/HPRDLKAFLEHMS EVQPDSPQGIYDTLLELRLQNWAEKDP QVKEKLHAEAISLLKSGRFCDVFDKALD LCQMHD FQDGGLYLYEQGKLFQQIMHY HMQHEQYPAGQSA/CCERHGEQDPSLW EQALSYFARKKEDCKEYVA AVLKHIE GNLMPPLL VVQTLAHNSTATLSVIRDYL VQKLQKQSQIAQDELVRVRYREETTRI RQEIQELKASPKIFQKTKCSICNSALELPS VHFLCGHSFHQHCESYSESDADCPTCL PENRKVMDMIRAQGT EPRFSMINSQHQL QVLQ
2200	10251	A	3133	11	707	AKMGAYKYIQELWRKKQSDVMRFLLR VRCWQYRQLSALHRGSRPHR/RPDKVH RLGYKQAKQGYVIYRIRVRRYI*DSCSR DRRGGRKRPVSKGATFGKPIVHHGVNQ AKVWFYPTSVAEERPGRH\CGALRVL NSYWVGEDSHLPNFLGVIPHGSHSHKAI R\RN*PPQWITQTQSHKH\REMRGLTSA RPERAVGL\GKGHKF\HHTIG\GSRAAW RRRNTLQAPPLPLI
2201	10252	A	3134	1	333	
2202	10253	A	3135	1	1530	
2203	10254	A	3136	1	554	ILSQVRCQAQLAQQAAGGGLSFRASSL PVSPSLAVSMKAFSPVRSIRKN/SALSDH SLGINSRSK\TPVD\DPDGALLYNMKDCYS VKLKE\VP SIPPQRR*ARWEIL\QHVIRL TSWDLADSPWDLAFPLIVQPGIHRTRG RNQ\RSRTPLGPPSTRDISILSFAGLLEFPS ELMSNDSK\ALCG
2204	10255	A	3138	3	251	
2205	10256	A	3139	1	1674	
2206	10257	A	314	22	297	GKEKLSHSAWAPKSQNSNSSASSWSN QSQAPRFGEDI/ESHLLMGREALS*IQS /GRLVYLQSLT*T*RFSTASPEQLDTECRL VHSQTL
2207	10258	A	3140	1	648	MSLRKLTIMVEGKG GPNIPHACGCRQRS SIKVSLPAVTSKSESPKEPEQLRKLFIGG LSFETTDESLRSHFEQRRTLTDCAVMRD PNTKCSKGFGVITYATMEKYHTVNGH SCEARKALSKQEVASASSQR/GRSGSGN FGGGHGGGFGGNDNFGHGENFRGHSSF GGSHGGSGYGGSGDDYSGFGNDGSGNF GGGSYNDFGNYSNQSSNF GPM

2208	10259	A	3141	579	2102	SPKEPEQLRKLFIGGLSFETTDESLSRSHFE QWGTLTDCVVRFGDKAVKQPISLAYL GAVFSECL*K*LIAL*LELCWQRNVLL*F *KLTS*I*G*WETGRTFYKRLV*SFLLPYS KLK*QKLLRSDFVLHKLTLFSGMRDPNT KRSRGFGFVTYATVEEVDAAMNARPHK VDGRVVEPKRAVSREVSFFFFFLLNLL GYVLL*T*DSGVF*TYQNFLFEYRLC*SK PMVFLLLDSQRPGAHLTVAKKIYVGGIK EDTEEHLARDYFEQYGKNEVVEIH*LDR IGQWPRKRGFVTFDDHDSVDKIVSKY QIVAFSKGSTICMAF*TLIPCCYVFFLVQ KYHTVNGHNCEVRKALSKQEMASASS QR/GYACCLIKP*R*L*VTPV*MI*CLNFM S*GRSGSGNFGGGRGGGFGGNDNFGRG GNFSGR/GYVWFIYM*F*LLTIFAMKILQ YGNCIQNVTLSPSHT*NLKFLTTGGFGGS RGGGGYGGSGDGYNGFGNDGKFFRNK
2209	10260	C	3142	42	152	MIXXXXXXXXXXXXXXXXXXVSPSAFA PXXXXKSLG*
2210	10261	A	3143	3164	3255	
2211	10262	A	3144	12	336	SPVQL*F*LFLVFC*LWSWSAVVYLGPL GTPSADAHT/AGLSKTPPHWAARARLDD VFSRLTSSSHSLNMELVQDLTASAPMYS STSRDPP/CLGLPKCWDYKREPRAH
2212	10263	A	3145	602	744	TPASLKIPVE**NTLLAKMVSIS*PRDLPA SASQSAGITGVSHRARC
2213	10264	A	3146	269	483	
2214	10265	A	3147	2	988	KYPPPAVLWFFGFFVLRRLSALSPRLECS GMISAHCKLCLPGSRHSPASASRVAGTT DVHHHAQL/L/YVFLVETGFHRVSDGL NLLTRLHLPKCWDYR/R*ATTPGLCFVF* KKRNAREGGRQPPDHKS*FL/VFFFLFFL KWSL/DSVSKAGVQWHGLSSLQAPPRGF TPFSCSLSPSSWDYRRPLPRANFFVFL** VGGFTVLARMVLIS*PRDLPASASQRAG VTGLSHCAWSEFF/CFFKTGSHSVTHARV QRHNLDSLEA*TPGLN*SSRLSPSSWD YRSTPPSPANF/CSFSRDGVSPC*PGWSRS SDLVIRPPRPKVPGLQA
2215	10266	A	3148	2	608	RDSPPRSLDSGARRDAPPHSPPAECRAH AATWRLKPRPHRPHSLTAPLPVHWAGT TEPLSPRPATGTRERPLHFPATPRSHS/ WRLARPCROQGPS*DRLFSAGAGPGVVS CLDREEKNAGHWLSSAFALVWLWLTEH WLLVGFIFYVKAGSVYPGCRACFFW AVLAGLGCLPAVSGIPRERFWVPRLHL VPWLALWE
2216	10267	A	3149	131	453	
2217	10268	A	315	152	437	GLRLCLSRPLTRPGDDSVGGSAMASGAG GVGGGGGGKIR/TRRCHQGPIKPYQQGR QQHQVWDPDAAVAWRVGKLGWRGRA VRGPGAPRGADRRRA
2218	10269	A	3150	403	787	MGRIFLDHIGGTRLFSCANCDTILTNRSE LISTRFTGATGRAFLNKNVNLQYSEVQ DRVMLTGRHMVRDVSCKNCNSKLGW IYGVWPLKDSQRF*GKGRR*SGERVLVS EEELRALEHVPPDNS
2219	10270	A	3151	171	382	KNSYKCEECGKIFNEYSHLIARK/RIYT*E KLYQYKDCEKAINVCSHLTQHQRV/H*K KYYKFNYCQKVQKI
2220	10271	A	3152	76	195	VHLLNPQHMLPSTHKQRRRTL*KGHAE HLQYYLNNQKLS

2221	10272	A	3153	2	634	WVWESLNREDLWPCFLRRILGGSSYSTA EMVSGQTLQRAHLREAASISLNSQGVW RKSARFQHQLERGTEEQQLQIPDLGQHPS SKAPVFPQVQAHPRFQTGPHGHKLQRN QDPGQLQ*IPMLGQTPWTQATGPTI*TOP SGRSPCSHYSGMSTDSGFMLAHSALTQVS SQPTCRLLEACPWTSSGGLPRISGWTD RQVFGSVDRDLIS
2222	10273	A	3154	275	463	GKFFSLCETLFP SGVGSFFSCTMDSSRS LGVGSKNSHFLA*NTDLRLSLCPPPGW KEDIKF
2223	10274	A	3155	5904	7919	FMFINMSVCRLITTKYLLLLFLHESLILS ENLRKDVEAVTGSPASQTSICIGILLRSA ELALLHPVDQANTLKSPVSESVSPVVP DYLPTEGDFLSSKRKQISRDNIRSVT VNHMSDNRSMSVDLSHIPLKDPFLFKSA SDTNLAKRAFPFMDYLSDKHLK/SEDE SSGLVYKSGASGEIGSETSDKKDSFYTDSS SILNYREGFRIYLSFG*VMGNQNILSSTL TSKNETVIESIFKAEDLLPEASLSENAD ISKEETPPVRVTLK/SQSSLSGESLRERLPH PNLGFPLVFSYKNMKRSSSQMSF/EATIS LDSMILEEQLES DGSDSHMFLEKGNRK NSTTNYRGTAESVNAGANLQNYGETSP DAISTNSEGAQENHDDVLMVVVFKITGV NGEIDIRGEDTEICLQVNQVTPDQLGNIS LRHYLCNRPVGS DQKAVIHSKSSPEISLR FESGPGAVIHSLLAEKNGFLQCHVENFS TGFLTSSLMNIQHFEDET VATVMPMKI QVSN TKINLKDDSPRSSTVSLEPAPVT VH NDHLVVERSDDGSFHIRDSVHMLNTGND LKENVKSDSVLLTSGKYDLKKQRSVITQ ATQTSPGVPWPSQSANFP/EFSGHLHGE QLMEENESLKQELAKAKMALAEHLAE KDALLHHIKKMTVE
2224	10275	A	3156	149	382	ARHCGSCP*SQHFGRSR*AEHLRTGV*D QPAQRGETPSLWKNTKIRRAQWWCPPVI PATSGGLRQENYLNPRQRLQ
2225	10276	A	3157	162	342	
2226	10277	A	3158	1	1995	FRLVTPGVPAFSGCGRRHRRGRTGRRAM ASCVGSRTLKDDVNYKMHFRMINEQQ VEDITIDFFYPHTITLLSFTVDSL MYFAF TTDDSV*DNIWGILSGILLFLIKV*AFP NGPLTRHPALWRMVFGLSELYFLVLF LLFPEFEQAKSLMDWLDPNLRYATREA NVMEYAVNCHVITWERIISHFDIFAGHF WGWAMKALLIRRYGLCWTISITWELTEL FFMHLLPNFAECWWDQVILDILLCNGGG IWLGMVACRFLERRTDHWASFKDIHTTT GKIKRAVLQFTPASWTYVRWFDPKSSFQ RVAGVYLFMIWQLTAE LNTFFLKHIFVF QASHPLSWGRILFVIGGINSFPQLRQYYA YLTD TQCKR/L*GTQCWVFGVIGFLAIAI VCIKFGQDLF/SKTQILYVVLWLLCVAFT TFL/CLYGMWYAEHYGHPRKRPTPECE DGTYSPEISWDHRKGTKGSEDSPPKHA GNNESHSSRRNR/HSKSKVTNGRWER NEKPWVNSKMFPECLGTEEGKWELHLG TPRGGGSRAHRGKPGRGEGTLGVILRSL SLCFPTDLGRVQADHRLGGPFANVGSLL TSALDMRSPVAARCVERETVAISFHSCQ EQLRAMLDRGCSVNIFPSDEALTPWLMD WSPVFNIFIFESTFPID
2227	10278	C	3159	410	538	
2228	10279	A	316	3	609	
2229	10280	A	3160	4	334	FFPKALIFCREVGPISPPPKIRFP/SPKFPGN RFSPPRVKPPPGP/SPFKRPPIRKKILPCQ PP*TLAPPRIL*KGPP/PSSSSG*NPYYLFIQ QKTEYLLWSRCPWHCEQR

2230	10281	A	3161	1	1130	PLLPTSLSVEDAAILLQQVMRAFSKQAST VVFSDTVVVSEKFINDCTELFREL MHQK AEKEMKNNPVHLITEEDLKQISTLESVST SKKDKKDERRRKATEGSGSMRGGGGGN AREYKIKKVKKKGRKDDSDDESQSSH TENEESGYDKKDENILEDVKWGKTSQFL EIFQDIEKARDKTLEADSELESVMSSTT SASGTGRKRTIKDLQEEVSNLYNNIRLFE KGMKFFADDTQAALTKHLLKSVCTDITN LIFNFLASDLMMAVDDPAITSEIRKKIL SKLSEETKVALTKLHNSLNEKDQHALLV KYQGLVVKQLVSQSKKTGQGDYPLNNE LDKEQEDVASTTRKELQELSSSIKDLVLK SRKSSVTEE
2231	10282	A	3162	20	2478	RVCSSASTASQAVMADAWEEIRRLAA DFQRAQFAEATQRLSERNCEIVNRLIAQ KQLEVVHTLDGKEYITPAQISKEMRDEL HVRGGRVNIVDLQQVINVDLIHIENRIGD IHKSEKHVQLVLGQLIDENYLDVRVQGEV NDKLQESGQVTISELCKTYDLPGNFLTQ ALTQRLAIIIGHIDLDNRGVIFTEAFVAR HRARIRGLFSAITRPTAVNSLISKYGFQE QLLYSVLDELVNSGRRLRGTVVGGGRQDK AVFVPDIYSRTQSTWVDSFRQNGYLEF DALSR LGIPDAVSYIKKRYKTTQLLFLKA ACVGQGLVDQVEASVEEAISSGTWVDIA PLLPTSLSVEDAAILLQQVMRAFSKQAST VVFSDTVVVSEKFINDCTELFREL MHQK AEKEMKNNPVHLITEEDLKQISTLESVST SKKDKKDERRRKATEGSGSMRGGGGGN AREYKIKKVKKKGRKDDSDDESQSSH TGKKKPEISFMFQDEIEDFLRKHIQDAPE EFISELAEYLIKPLNKTYLEVVRVFMSS TTSASGTGRKRTIKDLQEEVSNLYNNIR LFGKR GWKFFADDTQGWLLPKHLEEV QCVLISLNLINFLGFGILMDGQ*DDPG RPFTSELRKEILSKLSEETKVALTKLHN SLNEKSIEDFIFCLDSAAEACDIMVKRG DKKRERQILFQHRQALAEQLKVTEDPAL ILHLTSVLLFQFSTHSM LHP/GRCPVQII AFLNSKIPEDQHALLVKYQGLVVKQLV SPSKKTGQGDYPLNNE LDKEQEDVAST TRKELQELSSSIKDLVLKSRKSSVTEE
2232	10283	A	3163	1	389	IPSEISRSVAFSL/LPLLSVSGLEAIQRTPK NQVYSRHPPENGKSKFLNCYVSGFHPSD IVGDLLMNGERIE*A*HSDLA FRKDWAF YLLDYTEFTPT/EKDEYACRVNHVTL SQP KICKWDRDMLSASMEA
2233	10284	A	3164	2	409	RPRVRPRVRSIRAEMSRVALAVLALLS LSGLEAIQRTPKIQVYSRHPAENGKSNFL NCYVSGFHPSDIEV/DLLKNGERIEKVEH SDLSFSKDWAFYLLYYTEFTPT/DEY ACRVNHVTL SQPKIVKWDRDM
2234	10285	A	3165	26	299	
2235	10286	A	3166	11	486	
2236	10287	B	3167	198	282	XPSLEDLSNSIQKLHLAENAEPEEQSAA*
2237	10288	A	3168	80	827	AQQAVLARSKLES LCRELHGHNRS LKEE GVQ RAREEEERKEVTSHFQVTLNDIQL QMEQHNERNSKLRQENMELAE RLKKLI EQYELREEHIDKVFKHKDLQQQLVDAK LQQAQEMLKEAEERHQREKDFLLKEAV ESQRMCELMKQQETHLKQQLALYTEKF EEFQNTLSKSSEVFTTFKQEMEKM TKKI KKLEKET TMYRSRWESSNKALLEMAEE KTVRD/ERTGGPAGKNPTAGEAVPGTAD RAQ
2238	10289	A	3169	1	2511	

2239	10290	A	317	1	949	MGSCAARASLTSTTPCSTAPSPINHPKAE ECERTTAQDWQAAPPAAPVRDPLGEPS WAPESGGDVESLYIYLRDCKYTNQHPVF SSRFVNPPIDTLYLAALVGPWKTFSMSS GIVNTPIGTLYLAQVTVPPPLHTRFFALSP RQPRSFKNGLLFQGTTLNPLSGYSSDY KGFGRFRNHPQTGFSPAGANQRGPLVAT LSGPGGEGQSAVPVSLVKKRTTLAPNT QTASPRALADSLMQLARQVSPTGKRAV SATAINLKVCKHTSQHPVFSSRFVSAPID TLYLAALVRTWRVFMSSSGIVNTPIGTL YLAQGL
2240	10291	A	3170	93	517	GRGHLGG/VWC*RSQERAQQIKEASAEIT /CSWLQMKQNRKPSQEKTRDTRMENP DRGFVPGKECSFEQLEHVREMQUEKLARL HFSLDVCGEEEDDEEEEDGVTEGLPEEQ KKTMDARNLDQLLSNVGSCLGALVPGG MRGGE
2241	10292	A	3171	3	348	FFAFLGLIPFNAPLPHSTWGAAEHPPES VKSHSLKRMRGAVW/CLRGTPQR/HCS SGSAFSA RCSFWIELLRSSRLSSWSRLR SAIVFFCSSGKPLSDPNPLPHRPPPHTH PG
2242	10293	A	3172	2618	5946	PGCNFSLDVCREEEDDEEEEDGVTEGLP EEQKKTMDARNLDQLLSNARGRAWQL APMEPELLVRKVSALQACVRGFLVRRQF QSLRAEYEAIVREVEGDLTLQWTEGRI PRPRFLPEKAKSHQTKAGDRVANPEQ GLWNHFPCEESEGEATWEEMVLKKSSE SSANQGSCLRDHSSWLQMKQNRKPSQE KTRDTRMENPEATDQRLPHSQQLQEL QYHRSHLAMELLWLQQAINSRKEYLLL KQTLRSPEA
2243	10294	A	3174	16	319	LGTRPAHRSSQ*GKGSPPLPGAPLISRGA GKEGGPGDRAAHADFLPAEEGAHGM/R GSHGSPLIAPLPTYPHPPSGLFPLGALPLA RPRHQGAALGSVHEIQ
2244	10295	A	318	1	4425	
2245	10296	A	3180	417	736	YGLGAVAHACNPSTLGGQAGQITRLAV QDQPDQHCETPSLIKMQKN/LPGHGGVC LQSLLRGLRQGNCLNQGGSCEPRSH QCTPAWAIE*ESVSKKKKKKLVV
2246	10297	A	3181	1	2061	MGAVRDELHSLVVPPLMGRGAQTPMA AAALRDPAAQGCVTFFEDVTIYFSQEEWVL LDEAQRLLYCDVMLENFALIASLGLISFR SHIVSQLEMKGEPWVPDSVDMTSAMAR GAYGRPGSDFCHGTEGKDLPEHNVSV GVAQDRSPEATLCPQKTCPCDICGLRLK DILHLAEHQTIHPRQKPFVCEAYVKGSE FSANLPRKQVQNVHNPIRTEEGQASPV KTCRDHTSDQLSTCREGGKDFVATAGFL QCEVTPSDGEPHEATEGVDFHIALRHN KCCESGDAFNKSTLVQHQRHSRERPY ECSKCGIFFTYAADLTQHKKVHNKENP YECFEGGKFFKPALSLVKHRRVHTGES HVCDCGKFFSRSSNLQHKRVHTGEKP YECSDCGKFFSQRSNLHKKRVHTGRSA HECSECGKSFNCNSSLIKHWRVHTGERP YKCNECGKFFSHIASLIQHIVHTGERPH GCGECGKAFFSRSSDLMKHQRVHTGERP YECNECGKLFSQSSSLNSHRLHTGERP YQCSECGKFFNQSSSLNNHRLHTGERP YECSECGKTFRQRSNLRQHLKVHKPDRP YECSECGKAFNRPTLIRHQKIHIRERSM ENVLLPCSQHTPEISLRTDLIRALSSTML NLVHPSTHTGEVP*EC*LCWKLSGDKLH SLTVEFISVFSLLGL

2247	10298	A	3182	441	1074	Q R V Q R S L K K * C W G / F N W G H S G G K I * K Q I G P Y L N T G / T R L K S K W I I V P Q N C I S R R Q Q G K R V H L G L G K D F L N P T P K A Q S M / R G K I D K L Y F I K I E N F S L K G T I R R T K R Q A V E W Q K / I Y L Q N I S D K * V A S R L H K E V S K L N K V K P I V D L M R C F / R P E L A A S G P C S L S F S I C F Q H * I Q N V L L E I Q V R S H Q P S E L S N R R P W H S K V H N S L Q C W A K H E A P L F S L L
2248	10299	A	3184	178	488	V S S T V F G N T V R N K T E D D S G G N W E P P R T I L Q A S G K L K N P K A R L A S E C L S P F D S T G K A I H L C Q V C G R A S R S H Y S L G H H / M R H S H V G E * S * K C P G C G K G F S T K L D L R W
2249	10300	A	3185	7	310	K K R S H C A Q A G L E L L S G Q L G * T S S V Q K I R K L A G C G G V H P W S Q L L E R L R W E D S L P Q G G Q G C S E P * S H H C T P A W A T E * D P V S N N N K Q K Q K P K E S N L S R A T S R P
2250	10301	A	3186	65	203	K G D F Q G H Q G P W D A P P * P A F W W Q R E A R G E G E A M S Q S P C R G R G N A E M Y R P S A Q P E T G P A S G * * T E A A R G S S G W A E P W P R G * K P P E F P M R L G W P F P T P G A F S L P I L C D E E R P * G Q R S S G C E S Q Q E L R S P R E T E L Q V T S P T C F S A G P R R P G P A P G G P Q A A R A Y C C H L K T S S E P T F H Q A P T Q A E V S W E F S P A / P P A D K E M T S M A T P E K C P T S Q \ A P A I R K A A L P H P E R G N Y F L S A A W P Q G A P F P L W G S A S P F V A L P W S P R A G A A P L C P G K A P P S K T R L G R A V T F P * A E G G T G R G R G H V A V P L P W E R Q R G N V
2251	10302	A	3188	1	2559	
2252	10303	A	3189	259	3222	
2253	10304	A	319	160	747	V L N G S G R P S Q S K K H F P P K P G T F G G A S V H Q M F I M S L P A / G P D L S G F D E D D K G W P E N Q L D M S D Y S S S Y Q D V A C Y G T L P R D S P R R N K E G C T S K T P H A L T V S P F K G I F S S A T K V F Q A P N A C K R G A * G K G * P W E G K A S S K P G R D F L R E G R K M S W K L F N R K L I S S Q P Y V P V G V C L T S V F T I A S L G E Q G M V F P L K V D L F K L T G
2254	10305	B	3190	114	2876	M D K F L D T Y T L P R L N Q E E V E S L N R P I T G S E I E A I N S L P T K K S P G P D G F T S E F Y Q R Y K E T V V C R L S P P S F N G G L P L G S D L V F Y A P G P Q K I I W V M V H V G A L A L K D G F S P L D V G V H G F C R F R N H H Q T G F S P A G A N Q R D P L A A T L S G P G G E G Q S A V A R L T G E K K N H P G A Q Y A N R L S P R V G R F I N A A G T T G F P T G K R A V S A T Q L M V K D D V T Y A I K L S C W P G L D I I P S C L A L H R I E T E L M G K F D K G R L P T H P H L M L R L A I E

2255	10306	B	3191	1	2640	MEIRGRVEQRVGYTIEQINHM RDVFGTR LRR AEDVFP PVIGVAAHKG G VYKTSVSV HLAQDLALKGLRVLLVEGNDPQGTASM YHGWWPDLHHHAEDTLLPFYLG EKDDVT YAIKPTCWPGLDIIP SCLALHRIETELMG KFDEGKLPTD PHLMLRLAIETVAHDYDV IVIDSAPNLGIGTINVVCAADV LIVPTPAE LFDYPSALQFFHMLCDLVKNVDLKGFEF GELAPLYGCWGLRTGIACAPHHASL NLHGLNQIRNVKKQSVYLMNLRKSGTL GHPGSVDETTYERLAEESLDSLAEFFEDL ADKPYTFEDYDVSFGSGVLTGKLGRDL ATYVINKQTPNKQIWLSSPSSGLKRYDW TEKNWVYSHDCVSLHDVLA AE LTKALK TKLDLSSLAYSGKELDAQPGYYMLHAQ YMLRPPLSSPMQHRAPETGPTSRNSVLN AVTPPAPTPPSPLFDSRGSPRRKTYQNV QQFIDEGNYTSGDNH TLRDPHYVEDKG HKYLVFEANTGTENGYQGEESLFNKAY YGGGTNFFRKESQKLQQS AKKRDAELA NGALGHI LNNDYTLKKVMKPLITSNTVT DEIERANVFKMNGKWYLF TDSRGSKMT IDXGSPXKIRLFYTDYSGKH YGKQSLTT AQVNVSKSDDTLKINGVEDHKTIFDGDG KTYQNVQQFIDEGNYTSGDNH TLRDPH YVEDKGHKYLVFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKLQQS AKK RDAELANGALGHI LNNDYTLKKVMKPL ITSNTAAANQESSHVQQALALEQQFLE RTQALEAQIVALERMRAADQTTAKQGM CTQVHLTNTSRHAGRPSKCQFCSTRQR HRLSDPKQDLGNRRFSPPP*
2256	10307	A	3192	1	454	MERRNRRTGRTEKARIWEVTDRTVRTW IGEAVAAAAADGVTFSPVTPHTFRHSY AMHMLYAGIPLKVLQSLMGHKSISSTEY YTKVFALDVAARHRAIRVPRQQGDYRT RIWK FEDGLSNVLVIQLNKLICVMCLVR DCDVLKTYFHL
2257	10308	A	3193	2758	2946	
2258	10309	A	3194	2372	3570	EALLPGDQDSQSGKGVAAREVWFLPSSF APVLLRLVGNHHVGDNSIDSWKNAGR/V FKDSDKFDANDPILKDQTQEWSGSATFT SDGKIRLFYTDYSGKH YGKQSLTTAQVN VSKSDDTLKINGVEDHKTIFDGDGKTYQ NVQQFIDEGNYTSGDNH TLRDPHYVED KGHKYLVFEANTGTENGYQGEESLFNK AYYGGGTNFFRKESQKLQQS AKKRDAE LANGALGHI LNNDYTLKKVMKPLITSNT VTDEI

2259	10310	B	3195	I	2232	MKLMETLNQCINAGHEMTKAIAIAQFND DSPEARKITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQRVGYTIE QINHMARDVFGTRLRRAEDVFPVIGVAA HKGGVYKTSVSVHLAQDLALKGLRVLL VEGNDPQGTASMYHGWVVDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWPGLDIIPS CLALHRIETEFMGKFDEDDNAGMVRVL QPFTSDEKKSISTLTFFPGKHLRRDKSLT TAQGCCKINNKTSPEPTSPDLALKGLRV LLVEGNDPQGTASMYHGWVVDLHIHAE DTLLPFYLGEKDDVTYAIKPTCWPGLDII PSCLALHRIETELMGKFDEGKLPTDPHL MLRLAIETVAHDYDVVIDSAPNLGIGTI NVVCAADVLIPTPAELFDYTSALQFFD MLRDLLKNVDLKGFEVDVRIILLTKYSNS NGSQSPWMEEQIRDAWGSMLKNVEPE NGEVGKXGSPQLINQEKMFIRNRYSI DRDSEYLLQENEPDGLDQKLLLEDLOKK KNDLRYIEMQFFPLVSSRWVVKRGELT AYVEDTVLFSRRTSKQQVYFFLFNDVLI TKKKRRSDSSLREGDNQAYKETYGVS HITRHDMLQIPKQQQNEKYQVPQFDQST IKNIESAKGLDVSDAGMVPVLQPLHLTE KSGYSTLTIPVNLRTSLTQRKVMCQNL VTHLKSTEWKHKTIVDGERKTYQKRS AVFRMKGILHSATTIR*
2260	10311	A	3196	1260	1340	LPMALAVGFCFRNHHQTGFSPAGANQ RGPLAATLSGPGGEGQSAVARLTGEKK NHPGAQYANRLSPRVGRFINAAGTTGFP TGKRAGFCFRNHHQTGFSPAGANQRG PLAATLSGPGGEGQSAVARLTGEKKNHP GAQYANRLSPRVGRFINAAGTTGFPTGK RAGFCFRNHHQTGFSPAGANQRGPLA ATLSGPGGEGQSAVARLTGEKKNHPGA QYANRLSPRVGRFINAAGTTGFPTGKRA QAQAK*WHYREPLLLRAQLTNPPSGQQL KSVDQWPVQKQFSSGSDLYQLHPFHVQ HFLEPCFPRHPEFAPPSTGTESHYYCWIW
2261	10312	B	3197	200	2602	MQLARQVSRLESGQVKHEGQHTKMSQ VLWRSQEENPATLGNNIQLFDWIPQNDL LGHPKTKAFITHGGTNGIYEAIYHGVPM VGVPMFADQPDNIAHMKAKGAAVEVN LNTMTRPGGEGQSAVARLTGEKKNHPG AQYANRLSPRVGRFINAAGTTGFPTGKR AVSATQLMDFADFGTTIKQDFRLLGQTS VDRLLQLSQQAQVKNQLLPVSLVKRK TTLAPNTQTASPRALADSLMQLARQVSR LESGQDFADFGTTIKQDFRLLGQTSVDR LLQLSQQAQVKNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQVSRLESG QILPDFGPHHQTEFSPAGANQRGPLAAT LSGPGGEGQSAVARLTGEKKNHPGAQY ANRLSPRVGRFINAAGTTGFPTGKRAVS ATQLIPKVDKTTKIGKKQSRKTGNSKNQ SASPPPKESSSSHATEQNWTENDFDELRE EGFKRSNCSELQEEVQTHGKEVKNELEK LDEWLTRITNEEKPLKDLMEKTKAQEL RDKCTSLSRFNQLEERSVSMEDQMNE MKREEKFREKRIKNEQSLQEIWDYVKR PNLRLIGVPESDGENGTKLENTLQDIIQD FADFGTTIKQDFRLLGQTSVDRLLQLSQ GQAVKGNQLLPVSLVKRKTTAPNTQT ASPRALADSLMQLARQVSRLESGHQAPC MKSNNALIVILGTVTLDVIGLVMPLV PGLLRDIVHSDSIASHYGVLLALYALMQ FLCAPVLAALSDFRGRRTVLLASLLGATI DYAIMATTPVLWIYPLVNSPSC*

2262	10313	B	3198	1	3198	MKLMETLNQCINAGHEMTKAIAIAQFND DSPEARKITRRWRIGEAADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQVRVGYTIE QINHMARDVFGTRLRRAEDVFPVIGVAA HKXSPVIGVAAHKGGVYKTSVSVHLAQ DLALKGLRVLLVEGNDPQGTASMYHG WVPDLHIHAEDTLLPFYLGEKDDVTYAI KPTCWPGLDIIPSCALHRIETELMGKFD EGKLPTDPHMLRLAIETVAHDYDVIVID SAP
2263	10314	A	3199	1	2259	
2264	10315	A	32	603	855	GGWIMRSGVRDQPDQHGETLSLLKLQK LAGHGGACL*SQLVRRRLRQEYHLNPGG GGCSEPRF\GHCAPAWATE*DSVSGKKK KKK
2265	10316	A	320	1812	5065	PNKTGGKTVSDGLHHPSQLHSKLENDQ GFYNVDSSTGFHNKTNVGPFRKSPFLV MGVDWAETRRSMMMQRMRAPMSDDIL ARDRGSRLSRGNRRNGGGGCRDDDDDDG GGAGAVRTGEGATEELPPVGGVRPQH RGELFVLSSAGDLHRDRDTHRGAGSG GGSAMASGAGGVGGGGGGKIRTRRCHQ GPIKPYQQGRQHQVSSSRPDLSGFDED DKGWPENQLDMSDYSSSYQDVACYGTL PRDSPRRNKEG
2266	10317	A	3200	1	2418	
2267	10318	A	3201	1907	5097	TSKKIVKQAPVLTFTTA/LLAGGAIQAF KENNHKAYKETYGVSHITRHDMLQIPKQ QQNEKYQVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHVVFALAGS PKDADDTSIYMFYQKVGDNSIDSWKNA GRVFKDSKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHGKQSLTT AQVNVSKSDDTLKINGVEDHKTIFDGDG KTYQNVQQFIDEGNEGILPISEPPIKQDFR LLG
2268	10319	A	3202	891	2136	GATQAFKENNQKAYKETYVESAKGLD VWDSWPLQNADGTVAEYNGYHVVFAL AGSPKDADDTSIYMFYQKVGDNSIDSW KNAGRVFKDSKFDANDPILKDQTQEW SGSATFTSDGKIRLFYTDYSGKHGKQS LTTAQVNVSKSDDTLKINGVEDHKTIFD GDGKTYQNVQQFIDEGNYTSGDNHTLR DPHYVEDKGHKYLVFEANTGTENGYQG EESLFNKAYYGGGTNFFRKESQKLQQA KKRDAELANGALGIELNNDYTLKKVM KPLITSNTVTDEIERANVFKMNGKWYLF TDSRGSKMTIDGINSNDIYMLGYVNSL TGPYKPLNKTGLVLQMGDPNDVTFTY SHFAVPQAKGNVITSYMTNRGFFEDK KATFAPSFLMNIKGNKTSVVKNSILEQG QLTVN
2269	10320	A	3203	1	3987	
2270	10321	A	3204	2	247	QGAGFSSSLRMASIFSISVGTDLRLS TILSPLYNTVAPGAN*CRELKLVLDDADD VLSTEVKRVITSSASNITPAFFCS
2271	10322	A	3205	1099	2224	DGQQLIALHRLALRELQQAVHAGLPQQ AKILFDGGSE/TRQNPLQQLVHMGPRPL DKKNFQEP
2272	10323	A	3206	1366	2673	
2273	10324	A	3207	1	7035	
2274	10325	A	3208	1	2328	
2275	10326	A	3209	1	2328	

2276	10327	A	321	819	1242	KAYASLSLWQAPSGESRPAPAAADLRGS SG/RPP*TFPNPPCGPHTGCPAGSFPISFQ PRCLLVAKSKPGMPVSDEAAYESPWKG GAGAPALGLLGALSSEVADRALQAAPA WAPRDAGRGLPGQDRPQGPAGASLGP SRS
2277	10328	B	3210	1	2541	MPRQVGS GPGPLLGVAGQAAVGTGGKK SLCQYRKPDGSGIVSLKIDWIIERYQLPQ SYQHRKAGECLLHEYEDLVPIRDLRLF PGGRYL PRAKHVAPSEPDPEDQDEQKLRD FADFGTTIKQDFRLLGQTSVDRLLQLSQ GQAVKGNQLLPVSLVKRKTTLAPNTQT ASPRALADSLMQLARQVSRLESGQDFA DFGTTIKQDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKRKTTLAPNTQTASP RALADSLMQLARQVSRLESGQDFADFG TTIKQDFRLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKRKTTLAPNTQTASPRAL ADSLMQLARQVSRLESGQDFADFGTTIK QDFRLLGQTSVDRLLQLSQGQAVKGNQ LLPVSLVKRKTTLAPNTQTASPRALADS LMQLARQVSRLESGQDFADFGTTIKQDF RLLGQTSVDRLLQLSQGQAVKGNQLLP VSLVKRKTTLAPNTQTASPRALADSLMQ LARQVSRLESGQDFADFGTTIKQDFRLL GQTSVDRLLQLSQGQAVKGNQLLPVSL VKRKTTLAPNTQTASPRALADSLMQLA RQVSRLESGQDFADFGTTIKQDFRLLGQ TSVDRLLQLSQGQAVKGNQLLPVSLDD VTYAIKPTCWPGLAIIPSCALHRIETELM GKFDEGKLPTDPHMLRLAIETVAHDYD VIVID SAPNLGIGTINVVCAADV LIVPTPA ELFDYTSALQFFDMLRDLLKNVDLKGFE PDVRILLTKYSNSNGSQSPWMEEQIRDA WGSMLVKNVRETDEVGKGQIRMRTVF EQAIDQRSSTGAWRNALSIWEPVCNEIFD RLIKPRWEIR*
2278	10329	A	3211	1	3849	
2279	10330	B	3212	1	6724	MDNFFAPVFTMGKYYTQGDKVLMLPLAI QVHHAVCDGFHVGRMLNELQQYCDEW QGGADFADFGTTIKQDFRLLGQTSVDRLL QLSQGQAVKGNQLLPVSLRKQNTSRPP SMHVDDFVAAESKEVVPQDGIPPKRPL KVSQKISSRVENLNTLNLPKELMLCHHQ EEGAGEDLDRVYDLMIFFVRENRTQVD HHL CMWMTLLLLKVKKWFLKMEYLHQ NGHSKYHRRFLPVVGFQAIEEDGVLSTV RIGFSHLL
2280	10331	A	3213	532	1232	
2281	10332	A	3214	8749	11698	CSWHDRFPDWKAGRILPISEPPSNRIFAC WGKPAWTGLLQLSQGQAVKGNQLLPVS LGFRGPASNPGGAPGSASVAAAAAVA AKAAAAAAPPVDNAAPHSAAKLEERRK PDPRRDFADFGTTIKQDFRLLGQTSVDR LLQLSQGQAVKGNQLLPVSLVKRKTTLA PNTQTASPRALADSLMQLARQVSRLESG QDFADFGTTIKQDFRLLGQTSVDRLLQL SQGQAVKGNQLLPVSLVKRKTTLAPNT QTASPR
2282	10333	A	3215	3	452	
2283	10334	A	3216	24	609	GIPQTQREPTMVLSPADKTNVKAAWGK VGAHAGNEYGAELERMFLSFPTTKTYF PHFDLSHGFCPLRATGKKVADALTNA VAHVDDMPNALSALSDLHAHKL RVGP GSTFKLLSHLPCW*TLGRPPSPAEOFPLA VARLPWEKFPGLFVEAPLLDLQITFKVG SFGWPLFFCPEGPPSPSSPFLHPYPRGL

2284	10335	A	3217	3	583	EPRLRKAGGLLSRSRQNDQEGREGAQQ WPAYGPARGVVPQPVVQTGTWQGNTG QRVPQLPPHPPPIHLVSRHRGKLRHGFLR PMPEPRGLESCKT/GQCSGSCSMYVTMR AKRPWEGGHDTLTQQGGCRSSVCGRRA HEALRPRVWCGEGPQWTWCAVCPNRS APGAGLAD\QHPGESRAWGETRLGEAG GAE
2285	10336	A	3218	3	398	
2286	10337	A	3219	1766	3896	NTKLDQAQQAPEDHYPISLLPSHMAIG LLMAQEGHCKDSSAMGEEAHHPLTPAT PPFPPLSPDWGHMQPDDFFVPAVPAVFR GPPQLQCHGRRLFLNSPCAQKSSSGLVV EPGLSRTLLEMVKLTSMRGQFLEAQIPT GISLTLQYQLYQKQTNKNMSYSFVFLK WVALGQGRRAGYPSLEDADSRRFNGSR SFLITVIGITLTVEIVTSGMMKGTRVRWS GAGNEGMMGLEEGRNERSVKEAPPRRA VEAQPkdRTWDVGKGQGTGEGRGLEV EGQQHQGSEPGTIPFSVSWGVLLLAGLC CLVPSSLVEDPQEDAAQKTDTSHHDOG DWEDLACQKISYNVTDLAFDLYK\SWLI YHNQHVLTPTSVAMAFAMLSLGTKA DTRTEILEGLNVNLTETPEAKIHECFQQV LQALSRPDTRLQLTTGSSLFVNKSMKLV DTFLEDTKKLYHSEASSINFRDTEEAKEQ INNYVEKRTGRKVVDLVKHLKKDTSLA LVDYISFHGKWKDKFKAERIMVEGFHV DDKTHIRVPMINHLGRFDIHRDRELSSWV LAQHYVGNATAFFILPDPKKMWQLEEK LTYSHLENIQRAFDIRSINLHFPKLSISGT YKLRVPRNLGITKIFSNEADLSGVSQEA PLKLSKAVHVAVLTIDEKGTEATGAPHL EEKAWSKYQTMFNRPFVVIKEYITNFP LFIGKVVNPTQK
2287	10338	A	322	2	373	PRVRVRVDLVSGWGGKMVDLFLVLT KRVIDYAVKILVKPDWTGVVSDGVKHS LNPFCDIADVDEAVLLKEKKLVKEGIAVC CGPAQCQETNRTALGMGAHRGIHVEVS P**AQRLCPLQVARG
2288	10339	A	3220	3	1226	MRRNKPRQRGVREARPAAGGAGPGWRG ARCSGAGEGGGGERRGSPPAALALAPAS GPRRNFPDARCLYQIHHQGAFLLAGSA LSAVTGVPGEARFTEDYCPEEKMFGE HKPKMYRSIEGCISGAKSSSRFTDSKR YEK\DFQ\SCFGLHETRSGL\CNACVLLV KRWKKL\PA\GSKKNWNHVVDARAGPS\ LKTTFEPK\KVKTLSG\NRK\STQISKLOK EFK\RSNSDAHSTTSSASPAQSPCYSNQS DDGSDTEMASGSNRTPVFSFLDLTYWK RQKICCGIYKGRFGEVLIDTHLFKPPCS NKKAAAEKPEEQGPEPLISTQEWTECP DLSLVVSWRPPLSSLPAGCSLHGLAADW TTDMITVTTSKREPSQCQEGSFQRRKA FPKRLPKMAEVQVLLL
2289	10340	A	3221	1	269	
2290	10341	A	3222	240	377	SNTHRVPTFTDAWEVEMVTSLSLQSFL LPHIHLCLQ*DPLHSP
2291	10342	A	3223	47	263	
2292	10343	A	3224	416	498	KRLSLQSFLLLPHIHLCLQ*DPLHSP
2293	10344	A	3225	1	305	RTRGRTRGGDGGGHLGSGRNGGGSMN APPAFESFLPLRG/QRRITINKDTKVPNAC LFTMNKEDHTLGNIIKSRACFFAFCRD COFPEASPATLPVQPAEL

2294	10345	A	3226	74	562	GSGGGGGH LGSGRNGG GSMNAPP SFLLEGEKK/ISDAGCGGPRITINKDTKV PNACLFTINKEDHTLGNIIKSQRDLKDPQ ALFAGYKVPPLAEHKIIIRVQTTPDYSPQ RAFTNRQSPDLISELSLLGGS AFRGGHK KTSQERNLSRGARGGLCSGL
2295	10346	A	3229	1	2661	
2296	10347	C	323	303	395	
2297	10348	A	3230	1	1454	
2298	10349	A	3231	1	2364	
2299	10350	A	3232	1	1368	
2300	10351	A	3233	114	1473	VKGDRFGALRFND CPAGIKLPMTFFTEL EKTTLKFIWNQKRARIASILSQKNKAG GSTLPDFKLYYKATVTKTAWYQYQNR DIDQWNRTPSEITPHTYNYLIFDKPEKN KQWGNDSL FNKWCWENWLAICRKLKL DPFLTPYTRINSRWIKDLNVRPKTIKTLE ENLGITIQDIGMGKDFMSKTPKAMATKD KIDKWDLIKLSFCTAKETTIRVNRQPTK WEKIFATYSSDKGLISRIYNELKQIYKKK TNNPIKKWAKDMNRHFSKEDIYAAKRH MKKCSSSLAIREMQUIKTMYHLTPVRM AIKKSGNNRCWRGCGEIGTLLHCWWD WKL VQPLWKS VWRFLRDLEIFDPAI PLLGIYPNDYKSCCYKDTCTRMFIVALFT IAKTWNQPKCPTMIDWIKMWHIYTIME YYAAIKNDEFM/SFVGTWMKLEIILSKL LQEQKTK
2301	10352	B	3234	1	1890	MDKFLDTYTLPRLNQEEVESLNRPTGSE IVAIINSLPTKKSPGPDGFTAIFYQRYKEE LVPFLKLQFQSEIEGILPNSFYEASIIIP KPGRDTTKIENFRPISLMNIDAKILNKILA NRIQQHIKKLIHHDQVGFTPGMQGWFI CKSINIIQHINRTKDKNHMISDAEAFD KIQQHFMKLTLNKLIDGTLYLKMIRTIY DKPTANIILNGQKLEAFPLKTGTROGCPL SPLLFNIVMELLARAIQEKEIKGIQLGKE EVKLSLFADDMIRIKYLG IQLIRDMKDLF KENYKPLLNEIKEDTNKWKNI PCSWVGR INIVKMAILPKVIYRFNAIPIKLPMTFFTE LEKTTLNFIWNQKRARTAKSILSQKNKA RGIMLPDFKLYYKATVTKTAWCWYQNR DIDQWNRTEPSEITPHIYNYLIFDKPDKN KQWGKDSL FNKWCWENWLAICRKLKL HPFLTPYTTINSRWIKDLNVRPKTIKTLEE NLGNTIQDIGMGKDFMSKTPKAMATKA KIDKWDLIKLSFCTAKETTISVNRQPTK WEKIFATYSSDTGLISRIYNELKQIYKKK TNNPINKWAKDMNRHFSKEDIYAAQKH MKNAHHHWPSEKCKSKHNEIPSHTS*

2302	10353	A	3235	1	2676	MKAEIKMFFEINENKDDTTYQNLWDAFK AVCRGKFIALNAHNRKQERPKIDTLTSQ LKELEKQEQTTHSKASRRQEMTKIRAEK EIEIQKTLQKINESRSWFFERINKIDRPLA RLIKKKREKNQIDAIKNDKGDITTDPTIEI QTTIREYYKHLANKLENLEEMDKFLDT YTLPRLNQEEVESLNRPTGPEIVAIINSLP TKRSPGPDGFTAIFYQRYKEELVPFLK LFQSIEKEGILPNSFYEASIIIPKPGRDTT KKENFRPISLMNIDAKILNKILANRIQQHI KKLIHHDQVGFIQGMQGWFNIRKSINVV QHINRTKHKNHMIISIDAEKAFDKIQQPF MLKTLNKLSDGTYLKHIRATYDKPTANII LNGQNLEAFPLKTGTRQGHPLSPLFNIV LEVLARAIRQEKEIKAQNLLKLISNFRKV SVYKINVQKSQAFLYTNNRQTESQIMRE LPFTIASKRIKYLGIQLTRDVKDLFKENY KPLLNEIKEDTNKWKNI PCSWIGRINIVK MAILPKVIYRFNAIPIKLPTTFFTELEKTIL KFIWNQKRAHIAKTILSQKNKAGGIMLP DFKLYYKATVTKTAWYQYQKRDIDQW NRIELSEIPIHYNHLIFDKPDKNKKWGK DSVFNKRCWENWLAICRKLKLDFTLTPY TKINSRWIKDLHVRPKAIKTLEENLGITIQ DIGMGKDFTSKTPKAMATKAKIDKWDLI KLKSFCTAKETTIRVNRQPTKWEKIFAIY SSDKGLISRIYKELKQIYKKKTNNPIKKW AKDMNRHFSKEDIYAANRHMKKCSSSL AIREMQIKTTMRYHLPVRKAIKKSGNN RCWRGCGEIGTLLHCWWDCCKLVQPLW KTVWQFLRDLELEIPFYPAIPLLGIIYPKD Y
2303	10354	A	3236	1	3045	MDKFLNTYTLPRLKQEEVESLNRPTGS DIEAIINSLPTKKSPGPDGFTAIFCQRYK EE/LEKEGILPNSFYEASIIIPKASDTTK KENFRPISLMNINAKILNKILAKQIRQHIK KLIHHDQVGFIQGMHGLFNICKSVNIIQHI NRTNDKNHMIISIDAEKPFDKIQQHFM KTLNKL AQNLLKLIGNFSKVSGYKINVQ KSQAFLYTNNRQTESQIMNEFPFTIASKR IKYLGIQLTRDVKDLFKENYK
2304	10355	A	3237	1	2142	
2305	10356	A	3238	1	1551	MRFKEKIHLEHNIKEPSEAASADGGAVAS YDPAKIVDEGRYKAEVMQLRCGWRAP ASDCVHSAVVGVDVSVLEVLARAIRQE KEIKGIQLGKEEVKLSLFADDMIVYLENP TVSAQNLLKLISNFSRVSGYKINVQKSQ AFLYTNNKQTESQIMSELPFTIASKTIKYL GIQLTRDVKDLFKENYKPLLNKIKEDTN KWKNIPCSWIGRINIVKMAILPKVIYRFN AIIHKLPMPTFFTELEKTTLKFIWNQKGVH IAKSILSKKNKAGGIMLPFHFKLYYKATV TKTAWYQYQNRDQCNRTPESEIPIHI YNHLMFDPDKPNKKWGKDSL FNKWCW ENWLAICRKLKLDPFLLPYTKINSRWIKD LNVRPKPIKTLEENLGITIQDIGMGKDFM SKTPKAIATKAKIDKWDLIKLSFCTAKE TTIGVNRQPTTELEKIFAIYSSDKGLISRIY KELKQIYKKKNPIKKWVKDMNRHFSK EDIYAANRHMKKCSSLVIREMQIKTTM RYYLTPV

2306	10357	A	3239	1	1458	GLSGDLLGAHQLPDVLCGVQPLPDLPLP PQNLLALQSLQDDLLWALDPAAAAPWA MDRGAATQWAVGPVVS DPVWMEAVAS LPSAMDLD SAAQPTWLLGAASLLVTDQ PMDQPSADQLAEFPDLLSKVSQSLRIKY LGIKLTRNVKDLFKENYKPLLNEIKEDTN KWKNIPCSWVGRINIVKMAILPKVIYRFN AIPKLPMTFFTELENTTLKFIWNQKRACI AKSILSQKNKAGSIMLPDFKLYHKATVT KTAWYQYQNRDIDQWNGTEPSEIMSHIY NYLIFDKPEKNKQRGKDSLFSKWCWEN WLAICRKLKLDPFLTPYTKINSRWIKDLN VRPKIKTLEENLVNTIQDIGMGKDFMSK TPKAMATKAKIDKWDLIKQKSFCTAKET TIRVNRQPTWEKIFAIYSSDKGLISRIYK ELQQIYRKKTNNPIKKWAKDMNRHFSK EDIYAANRHMKKCSSSLAIREMQIKTTM RYHLTPV
2307	10358	A	324	268	393	DGRRKEKWHKVERRHRPYLLSSLSQHR W*TVTNFGEISGTIAIEVDEGTIHALNN GLFTLGAPHK/ERIALKPGYGKYL SINS ELVV/GRSDAIGPREQWEPVFQNEVRN GGPAEMGEEKRNGTKWREDTDHTSFPL FPSTGGQPKAHSNWRKVCH
2308	10359	A	3240	1	2028	
2309	10360	A	3241	2	1547	
2310	10361	A	3242	3	1945	
2311	10362	A	3243	1	2124	
2312	10363	A	3244	1	2250	
2313	10364	A	3245	2	2483	GKYYKLSSGTAPTCVSLGWGLARGDSA APALGSRTSACAPCSHGTWKL SLEPSDR LSPCDRSSEEAHTHAPHRLLALVASLPW SRLPLLAPQSHSEAEATSQPTGVENHHQ KTRYVKAGGPVICRSLPESRGFLWASEG RKCMLIGSWAAMGRLRKSTISSRFGPQT LAGTGRPQAIPVLKKHSDAVLLGVCFLK LLHQHHQELGENADSQTL PQTHWEFILS EDYNKMTPVKNYQVLEVLARAMRQEK QIKSIQLGKEEVKLSVFADDMIVYLENPI VSAQNLLKLISNFSKVSGYKINVQKSQA FLYTNNRQTESQIIELPFTIPSKRIKYLGI QLTRDVKDLFKENYKPLLNEIKEDTNKW KNIPCSWVGRINIMKMAILPRVIYIFNAIS IKLPMTFFTELEKTTLKFIWNQKRARIAK TILSQKNKAGGITLPDFKLYYKATVTKT AWYQYQNRGVDQWNRIEPIPHIHNH LIFDKPDKNKKWGKDSLFTKWCWENW LAICRKLKLDPFLTPYTKINSTWIKDLNV RPKTIKLEENLGITIQDIGMGKDFMSKT PKAMATKAKIDKWDLIKLSFCTAKETT IRVNRQPTWEKIFTIYPSDKGLIPRIYKE LKQIYKKKSNNPIKKWAKDINRHFSKED IYAANRHMKKCSSSLVIREMQNKITIR/Y HLTPVRMAIHKSGNNRDMDEAGNHHS EQTIARTENQAPYLLTHR WELNNENTWT QVEEIHHTLGPIVGICRKVFPNGSGPSKP SGLHFSQPLPQVTSVVAKITIVPWEMKLI AMGVQDELNIAFHKNHLLMNDTTIHTMT PYIQPAPKS
2314	10365	A	3246	1	2622	

2315	10366	A	3247	853	2831	YPESTMNSNKFTRKKQTPPSKSG*RI*TD TSQKKTFMQPKDT*KNAQHHSLEKCK SKPQ*DTISHQLEWRSLSQDRKD*QSTL LAILIKKKGQKNQIDT/IKNDKEGITTDP EIQTIREYYKHLTYNKVENLEEMDKFL DTYTLP TLKQKKEVKTLNRPITGSEIEAI NSLPT/KKSPGPDRFTAIFYR/DIRSSQGG NQARERNKGYSIRKRGSIQVPVCR*HHCI FRKPHHLSPKSS*ADKQLQSLRIQNQSA KITSIPHQ*QTNREPNE*TIHNCFKEN KMPRNPTYKGCEGSLQGELOTTAQ*NK RGHKRMEEHSMMLMDRKNQYRENGHTA QGNL*IQCHPHQATNDDFFHRIGKNYFKV HMEPKKSPHRQVNPKEQSWRHHTT* LQTLQGYSNQNSMVLVVPKQHRPMEQ NRAPGNNTIHLQLSDL*QI*QKQEMGKG FPI**MVLGKLANHM*KAETGSLPHILYK N*FKMD*RLKC*T*NHKNPRRKPQYHS GHRHGQGLHD*NTKSNGNKSQN*QMG N*TKELLHSTRNYHQSEQATYRMGENFC NLLI*QRANIQLQRT*TNLQDKNKQPH QKVGKGYEQTLLKRRHLCSQKTHEKML IITGHQRNANQNHNEIPSHTS*NGDH/SN QVRKQVLERMWRN
2316	10367	A	3248	1	4954	MVFSIDAQKAFDKIQHRFMLKTLNKLGI DGTYLKIIIRAIYNKPTGNILNGQKLEAFP LKTGTTRQGCP LPLFNIVLEVLAIRQ EKEIKGIQLGKEEVKLSLFADDIIVYLENP IVSAQNLLKLIGNFSKVSQYKINVQKSQA FLYTNNRQTESQIMSELPFTIASKRIKYL GIQLTRDVKNLFKENYKPLLNEIKEDTD KWKNI PCSWIGRIHIVKMATLPKVIYRLH AIHIKLPMTFFTELEKTTLKFIW
2317	10368	A	3249	25	527	EFHRLRENPPMVAVSCPTKTNVKA\AWG KVGAHAVRSMCAEALERMFLSPPTTKT YFPFHD\ASHG\SAQVKGATGKKVADAL TNAVAN\DDMPNVAVRPEATLHAHKL RVDPVNF\KLLKPLACLVDGPAHLPRP SFTPGGATSSLGQSFLGFLKHRCLNLPN YR
2318	10369	A	325	1	67	
2319	10370	A	3250	97	1360	SACAWRLPSPGPSAMWPLWRLVSLAL SQALPFEQRGFWDFTLDDGPMMNDEE ASGADTSGVLHPDSVPTYSAMCPFGC HCHLRVVQ\CSDLGLKSVKPEISPDITLL DLQNDISELRKDDFKGLQHLIALVLV NNKISKIHEKAFSPLRKLQKLYISKNLHV EIPPNLPS\SLV\ELRIHDNRIRKVPKGVFS GLRNMNCIE\MGGNPLENSGFEPGAFDG LKLNYLR\RISEAKLTGIPKDLPETLNEHL DHNKIQAIELEDLLRYSKLYRLGLGHNQ IRMIENG\SLSFLPTLREV\H\ADNNKLAR VPSGFP\DLKLLQVV\YILHSNNIHQSGVF NEFLFPWGFGGEAGPYNGH\ISLFNNPV PYWEVQ\PATFR\VVTDRLAIQFGQLQKV EAAAATLVSQWGS LGNRARHPDGEAEP GS
2320	10371	A	3251	1	2535	

2321	10372	A	3252	5	2333	NPILWLETQMASNERDAISWYQKKIGAY DQQIWEKSIEQTQIKGLKNPKKMGHIK PDLIDVDLIRGSTFAKAKPEIPWTSLTRK GLVRVVFPLFSNWWIQVTSRIFVWLL LLYFMQVIAIVLYLMMPIVNISEVLGPLC LMLLMGTVHCQIVSTQITRPSGNNGNRR RRKLRKTVNGDGSRENGNNSDDKVRGIE TLESVPIIGGFWETIFGNRIKRVKLISNKG TETDNDPSCVHPIIKRRQCRPEIRMCQTR EKPFSDEGEKCRREAFRRLGNGVSDDL SEEDGEARTQMILLRRSVEGASSDNGCE VKNRKSILSRHLNSQVKKTTTRWCHIVR DSDSLAESEFESAASFSGSRSGVSGGSR LNMSRRDSESTRHDSITEDMLWDDLH GPECRSSVTSDEGAHVNTLHSGTKRDP KEDVFQQNHLFWLQNSSPSSDRVSIIW EGNECKKMDMSVLEISGIIMSRVNAYQQ GVGYQMLGNVVTIGLAFFPFLHRLFREK SLDQLKSISAEIILTFCGAPPVTPHIVLSI INFFERLCLTWMFFMMCVARTYKQOR FLFAKLFSHIYFCQKGLGKYEIPHRLKK VENIKIWLRLSYLKRGRQSRSDVVS SVLLTLIAFICCAQVLQGHKT\SWNDA YNNWGVFDLGETALLFLRLASLGSETN KKYSNVSILLTEQINLYLKMEKKPNKKE QLTLVNNVLKLSKLLKELDTPFRLYGL TMNPLIYNITRVVILSAVSGVISDLLGFNI RLWKIKS
2322	10373	B	3253	73	358	XVPGSRGPETKLWDDFSMSQATKRKHV VKEVLGEHIVPSDQQQIVRVLRTPGNNL HEVETAQQQRFLVSMPSKYRKNWIKRG DFLIVDPIEEGEK*
2323	10374	A	3254	80	201	
2324	10375	A	3255	498	748	FLPRRGDNDSTYPQ/WTACRRRRRTCW* T*TWIRSGQRKMWSCGRRSLTTCMP RTRTAARLMACGSGSWRRSGPSCGRL SP
2325	10376	A	3256	1	1764	MTTSQKHRDFVAEPMGEKPVGSLAGIGE VLGKKLEERGFDKAYVVLGQFLVLKGD EDLFREWLKDTCGANAKQSRDCFGCLR E/WCAKSRPAAEVSELKADSKEGPQAQG PEQERTGL
2326	10377	A	3257	842	1186	FLPRRGDNDSTYPQ/WTACRRRRRTCW* T*TWIRSGQRKMWSCGRRSLTTCMP RTRAUTWRSKNLALSCPSMTKSLKGS GHIPSAWSRAARLMACGSGSWRRSGPS CGRLSP
2327	10378	A	3258	526	1158	SCGLSLIKMTTSQKHRDFVAEPMGEKPV GSLAGIGEVLGKKLEERGFDKGL/YVVL GQFLADIEKMKTSFREWLKDTCGANAK QSRDCFRMPFEKWCEALLVDALLGKFSI PPAPQSRSLASRSRDSSPCPSYEGKD\CY C\RTHLARRYFRGSFGEFSPLNHFQLFFGI LRSWHAFFRPFFPWPVSWVTVYQLFLE WDFPGPIPHPHFQSV
2328	10379	A	3259	35	407	
2329	10380	A	326	163	552	AGFSLSAQKSPGAMA*YSYVKSSKLVLK GT\SKKKKSKDKKRKREDEETQLD/IVGI W*TVTNFGEISGTIAIGMDEGTIHALDN GLFTLGAPHK\ERIALKSGYGKYLGINSD ELVGHSDAIGPREQWEH
2330	10381	A	3260	3859	4052	ASCPNPKEFAPPRAGPPFWGPPLARVN PGALGGPFSGTRTPPQPLPEQRVTLTSTN PWLAASV
2331	10382	A	3261	493	712	AHGRQLRKYSQQQGCWRLPFCGCHAV SGGGCGKCC\SPANGPCGAA\CLGFQPH NFPDPCETC/CGCHAVSGGGCGKCCISSK WSLWCSPAWVSSHSTSRIPVKLAGLPSP SFLPG

2332	10383	A	3262	51	539	
2333	10384	A	3263	742	4858	
2334	10385	A	3264	2	658	AFLRMLFPESWMETRRGAPAPPAPRSET SHDLVATLMRCTPHYIR*SNPTRPRGPET GRRTA*TRSPQVPHLQHLPTPRLVTPHP EGTQPTLPTRSSTRWNTWA*RRTS GCES RLRLPPPVRQIPAEYAILTPETWPRWRGD EPRASSTCFGRSTWSPTRPDGEHQGLCQ EPRVAFPPGGGAKRKFDFARTIQKAWR RTWLSGSTRRCGRKLPTSC
2335	10386	A	3265	1	4095	
2336	10387	A	3266	26	173	
2337	10388	A	3267	387	1443	PHRKQAEPPRHHERLGRRVRHHARHGR GSRPDTAAEAAGCGDPRAFQQLERL RHPPLRWQGLLRQRLREPRRSLRP HRADAVQ*PGLPPDALPREAGWRQEGA PQHRRQLQDYETCQLTWWPH**GAHPTTS AALNPTPRPGPETGRRTESSTRWNTWA* RRTS GCAPASPTA/SQFAKFLQRYAILTP ETWPRWRGDERHGVQHLLRAVNMEPD QYQMGSTKVFKNP/VVAFPPGGGARA KVRWLCPNHPEGLAAPRCPEVRGDA/R RKLPTSC*TRRSSGATASIGTSSGTTWG WRSGPSCVSSWARRSGWTSPRSPSTTA ASSPSSGT*S*RPSVCM*LGERR
2338	10389	A	3268	1	4496	MEGNVNAHRASGAQIRTCRAPPATGC TALFKANSPEFTGLKSAQRGRPVVGAP RKRFSGLRGHREAERTLGWGSQAPPA AQAHTPAAGDSTLLRSAPVGTCLLYAP HPQDFPPAGFLREQWWPRLLTLQVFLHL RTGGRVGPVDWVLLGGGRLLGHRMP GPCNLAEAVLLREARWPWGEAGGSEEG EPSGGSVGGNCQRRARPLPSAHPEAQQGV GLEVGRGMVAPAASYFADEGRPNGDHP ARQPLG
2339	10390	A	3269	911	2827	ERKHLGWMEFSIKQSPLSVQSVVKCIKM KQAPEILAGSANGKTPSCEVNRECSVFLS KAQLSSSLQEGVMQKFNGHDALPFIPAD KLKDLTSRVFNGEPGAHDAKLRFESQE MKGIGTPPNTTPIKNGSPEIKLKITKTYM NGKPLFESSICGDSAADVSQSEENGQKPE NKARRNRKRSIKYDSLLEQGLVEAALVS KISSPSDKKIPAKKESCPNTGRDKDHLLK YNVGDVWSKVSGYPWWPCMV SADPL LHSYTKLK GQKKSARQYHVQFFGDAPE RAWIFEKSLVAFEGEGQFEKLCQESAKQ APTKAEKIKLLKPISGKLRAQWEMGIVQ AEEAASMSVEERKAKFTFLYVGDQLHL NPQVAKAEAGIAAESLGEMAESSGVSEEA AENPKSVREECIPMKRRRRRAKLCSSAET LESHPDIGKSTPQKTAADP/RRRGVGS PGRKKTTVSMPSRKGDAASQFLVFCQ KHRDEVVAEHPDASGEEIEELLRSQWSL LSEKQRARYNTKFALVAPVQAEEDSGN VNGKKRNHTKRIQDPSENAIDLEDTPRK GLRTDKHSLRKRDTITDKTARTSSYKAM EAASSLKSQAATKNLSDACKPLKKRNR ASTAASSALGFSKSSSPASLTENEVK
2340	10391	A	327	289	818	EPSRGVWPHEGARINGSKKKKSKDKKR KREEDDEETQFD/IVGIW*TVTNFDEISGTI AIEMDEGTIHALDNGLFTLGAPHK/ERI ALKPGYGK YLSINDELVV/GRSDAIGPR EQWEPVFQNGACAAVFTVIGSEKQSECS LLRESRAKYHGCTHGQISSSLKQHPRWM YSHQEDLKV
2341	10392	A	3270	3	114	
2342	10393	A	3271	328	471	
2343	10394	A	3272	1	190	

2344	10395	A	3273	2	479	SGLGRLPGPWQEGSSRGPSSGDMAGV KALVALSFSGAIGLTF/LHMLGCALEDYG VYWPLFVLAFFHAISPIPHIAKRVTYDSD ATSSACRELAYFFITGIVVSLWISPVIL ARVALIKWGAFAFVLAAGNAVIFPYN RGFSLYLGRGDDFSWEQW
2345	10396	A	3274	3	586	ARAMGISRDNLHKRRKTGGKRKPYHKK RKYELGRPAANTKIGPRRIHTVRVRGGN KKYRALRLDVGNFSWGSECCTRKTRIIDI VYNASNNELVRTKTLVKNCIVLIDSTPY RQ/WTPEEEELNKKRSKKIQKKYDERKK NAKISSLLEEQFQQGKLLACIASRPGQCG RADGYVLEGKELEFYLRKIKARKGK
2346	10397	A	3275	2	727	LPASAEQMGISRDNWHKPRKTGGPRE SPYQOEAKSMSLGRPAANTKILAPRIQ HSPVCRGG*QVNTVPLRFDVGNFSWG/S KECCTRKTRIIDVVYNAI**PSWVRYPRP LVERICNVLIDEQHPYRQWVRSPTYALP LGPQRKGAKLDSLREEJFKPKTDLK*IQ KKYD*/ERKKNCQNSASLPGRSSFQQGK ASLRCIAFK/RPGQCGRADGYMTRGHR VRSYYLRKIKARQSKINT
2347	10398	B	3276	48	209	XKNQCETRTMQENGYSSHAVDGTGPAG GAGRPAGSTGAQVSQPNFQQDKFLGR X*
2348	10399	A	3277	2	353	
2349	10400	A	3278	3	676	SAVEFPPLSHTTGTRPRTPILLQQENGY FIHTLWMGLALLGVLDLSGQHRPRSP CQPNFQQDKFLGRWFKRG/LASNSSWL EKKAALSMCKSVVAPATDGGVNLSTF LQEKTSVETRTMLLQPRGVPSASLQLTG VPHWGQA/HYSVSVVETDQYALLYT RASKGPGEDFRMATLYSRTQTPRAELK EKFTAFCQAQGFTEITIVFLPQTDKCM EQ
2350	10401	A	3279	154	522	HVACGLLWYVVSFAHLNLDGTITTK/EN LGTVNEILLGSNPTEAELQDMINEVMSD NGTIDFPPEFLTMMARKMKDITDSEGR KLAEAFRVFGLRVGNGLYLACRNFH VDGQTLGGGSLPD
2351	10402	A	328	213	905	YVQSLKQILS/GCI*ESIAIKKKKNKDKKR KREDEETQLDIVGIWTVTNFGEISGTI AIEMDKGTIHALDNGLFTLGAPHKEVD EGSPPEQFTAIVKLSDSRIALSGYGKY LGINSDDL VVGRSDAIGPREQWEPVKI MGKMALSTSNCFIRNHEAEDIEAKSKT AGEEEMI/KGSPNLCQTFTFMTLPYLPEH RSLLLKIRSCAERETKKKDDIPEEDKGN KQCE
2352	10403	A	3280	1	1446	
2353	10404	A	3281	774	3564	VLSKGNERSQPRSLRLLAPQLKAEAAA DKGLAPVPPPFSSGHSGPCEREQEGQRG RGRSRRGAHLELKPSPLRAGAPTDRGR GGPAEVAAAAGGRRMVQKESQATLEERE SELSSNPAASAGASLEPPAAPAGEDNPA GAGGAAVAGAAGGARRFLCGVVEEQ MTLISAAREYEIEFIYAISPGLDITFSNPKE VSTLKRKLDQVSQFGCRSFALLFDDIDH NMCAADKEVFSSFAHAQVSITNEIYQYL G
2354	10405	A	3282	51	672	VLSKGNERSQPRSLRLLAPQLKAEAAA DKGLAPVPPPFSSGHSGPCEREQEGQRG RGRSRRGAHLELKPSPLRAGAPTDRGR GGPAEVAAAAGGRRMVQKESQATLEERE SELSSNPAASAGASLEPPAAPAGEDNPA GAGGAAVAGAAGGARRFLCGVVEEQ MTLISAAREYEIEFIYAISPGLDITFSNPKE VSTLKRKLDQ

2355	10406	B	3283	506	2416	MNPSAPSYPMASLYVGDLPDVTTEAML YEKFSAPGILSIRVCRDMITRRSLGYAY VNFQQPADAERALDTMNFVKGKPVRI MWSQRDPRLKSGVGNIFIKNLDSIDN KALYDTFSAFGNILSCKVVCDENGSKGY GFVHFETQEAERAIEKMNGMMLNDRK VFVGRFKSRKEREAEELGARAKEFTNVYI KNFGEDMDDERLKDILFGKFGPALSVKV MTDESGKSKGFGVVSFERHEDAQKAVD EMNGKELNGKQIYVGRAQKKVERQTEL KRKFQMKQDRITRYQGVNLYVKNLDD GIDDERLRKEFSPFGTITSKVMMEGGR SKGFGFVCFSSPEEATKAVTEMNGRIVA TKPLYVALAQRKEERQAHLTNQYMQR MASVRAVPNPVINPYQPAPPSGYFMAAI PQTQNRAAAYPPSQIAQLRPSRWTAQG ARPHPFQNMPGAIRPAAPRPPFSTMRPAS SQVPRVMSTQRVANTSTQTMGPRPAAA AAAATPAVRTVPQYKYAAGVRNPQQHL NAQPQVTMQQPAVHVQGQEPLTASMLA SAPPQEQKQMLGERLFLPLIAMHPTLAG KITGMLLEIDNSELHLMLESPELSRSKVD EAVAVLQAHQAKEAAQKAVNSATGVPT V*
2356	10407	A	3284	183	3080	PRRCSTGNSGRPKIIRRAAEANEDRTL RLLPGNERSQPRSPRLRLAPQLKAEAAV DKGLARVPPPFSSGHSGPCERECEGQRG RGRSRGAHLELKPFSGLRAGAP\TDRLG RGGPAEVAAAGGRRMVQESQATLEER ESELSSNPAASAGASLEPPAAPAPGEDNP AGAGGAAVAGAAGGARRFLCGVVEGF YGRPWWMEQRKELFRRLQKWELNTYLY APKDDYKHRMFWRMYSVEEAQLMT LISA
2357	10408	A	3285	3	452	
2358	10409	A	3286	26	526	NSTDSETHPWLLSPADKTTVK/APAWG KVGHAHAGEYGSEALERMFLSFPTTKTY FPHFDLSHGFCPLRATGKKVADALTKR RGAPLDDMPNALVRPLASDLHAHKLARV GPGSTFKLLKPLACL\TLGPAHLRPSFT PGGCKASLGQSFLGFLKHRCLNLPNYR
2359	10410	C	3287	410	484	
2360	10411	A	3288	3	170	IRGSVVLNLNLTNTFFTP*RSFISTSVMF* KPFIFSFLMLLL*VFIFSLKILSY
2361	10412	A	3289	831	1559	IAWAFKINWLPILFISVLFYPFGFIFYL LYFSNTCLSLFFHFLSETLDNIFIFYLVSIF QFSSKFVHFAISFMFPLSFFFCFILSRFKF IFFSSKKYVFIFLISLSF\IFF
2362	10413	A	329	133	480	GYGRRSVKVRARWARCTGFSPKTPNPWV NSQHFGRLRWADHLRSGVRDQPGQHGE TSLLLKIQKLPGCCGRCL*FQLFGRLRQE N*/RLNPGGGGCSELRSHHCTPAWVTEQ DSVSK
2363	10414	A	3290	253	414	
2364	10415	A	3291	3	225	
2365	10416	A	3292	218	602	SFLLLPRCTAEKQRWGHQ\QLYWSPR KFGQ\SRVCSNRRHGL\IRKYGLN MCRQCFRQYAKDIRFHL\SWTKCSSFRGL SGASTSMKKPWINSFVYIIHFEEKATEKK RKKNEIKRGPFCFKGPL
2366	10417	A	3293	33	494	
2367	10418	A	3294	1	609	PLKRSDDGCNDGRPTRPPTRPD\TVFTSNL KQTRMVHLTPEEKSAVTALWGKVNVD VGGEALGRLLVVPWTQRFESFGDLST PDAVMGNPKVKAHS\KKGLRGAFSDGL AHL\DNLKGTFAT\SEL\HCDKAAPWIPE ELQAPWATCLVCVAWPITFGKRISTPPV AGLPNOENWLAWCWLNALGPTSNHLSL

						AFLAGPISN
2368	10419	A	3295	8	519	SAQMAVTTADPRVRPRVRTQLCSLASLI QTLLVHLTPEEKSAVTALWGKVNVD VGGKALGRLLVVYPWTQRFLAESFGDLS TPDAVMGNPKVKAHSKKVLGAFSGGP GCTWDNLKGTFAHTEVSLHCDKILHRGS LKNFRLGQRAWVSVAGPIHFWQKNFN PTSCRLA
2369	10420	A	3296	3	333	
2370	10421	A	3297	35	717	RRSSPSLLPLAERGGARARGRPERAPHS TPATRTAPPPWARRMMKLKSNQTRTYD GDGYKKRAACLCFRSESEEVLVSIS R/HPDRWVPWKEGMEARRKEAKCGKQ VREVCEGR LGVKGTLGRLVGIFENQER KHRTYVYVLIVTEVLEDWEDSVNIGR KREWFKIEDAIKVLQYHKPVQASYFETL RQGYSANNGTPIVVATTYSVSGFRASMF RAFRWT
2371	10422	A	3298	81	426	PSFHYAVLPLHNC LGFFPSLRHRWLHSM TDDPPTTKPLTARKFIWTNHKFNVTGPQ NNMYLILPLERRFRSGSHLQHLTSKDNE EQLKHAKYGAFHVITLLFTIHYNSQLKL CD
2372	10423	A	3299	180	484	RQQAIFWHRWLHSM TDDPPTTKPLTAR KFIWTNHKFNVTGPQNNMYLILPLERRF RSGSHLQHLTSKDNEEQLKHAKYGAFH VITLLFTIHYNSQLKLCD
2373	10424	A	33	200	559	KNFFFLEMEF/SVLLPRLECNGVISAHRR LRLPLSSYSPASSQVAGDYRACTTTAG* ILYF**ETGFLHVG/QAGLEFPTSGDQPAL ASQSAGITGVSHCPQLKKSILHETPKGLT GVTS
2374	10425	A	330	27	201	LQE*SRRPSRSEAADLHGECYSS*GSTSG VVCSSRWARGLAGLRSEAADLRSEYYSS
2375	10426	A	3300	591	942	MAKTHFWDVDGSMVPEWHRWLHSM TDDPPTTKPLTARKFIWDGTIKFQRLG HPRNNMYLILPLERRFRSGSHLQHLTSK DNEEQLKHAKYGAFHVITLLFTIHYNS QLKLCD
2376	10427	A	3301	1	508	NFALEAKNSARAISYVQTPMGHFTRG PRLTITSLWGK\VNVEDAGGETPGKGS VVYPWTQRFFDSFGNLSSAFCPSWPTP KVKAHGK\KVLTS LGDAHKSTWDDLKG HLLPKPEVNCTVDK PAMWDPENFKAPG EMLLVTRFGQSLFRQKNFTPEGCRASLG KKDG
2377	10428	A	3302	3	452	
2378	10429	A	3303	1	627	TLLVPQDSERTHPWLLSPADK\TNVKA WGKVGAHAVRSMCAEALERMFLSFPTT KTYFPHFDLSHG\SAQVKGATGKKVAD ALTKRRGAPLDDMPNAL/SSALEATLHA HKLARVPGSTSKLLKPLACLVDPGPAHL PRPSSTPGGCNVFPGT KFGPFVEAPPLE PSKLPLKLGSLRLAIVFLPLWGFPAPPL SCTRTPVVFEIKS
2379	10430	A	3304	131	406	EAMGILKLQVFLIVLSVALNHLKATPIES HQVEKRKCNTATCATQRLANFLVHSSN NLGGILSSTNVGSNTY GKRNAVEVLKRE PLNYLPL

2380	10431	A	3305	154	1702	IGHRDPARGRSCRCSGYYSRMVCEKLAP QSEMASAGVSLRATILCLLAWAGLAAG DRVYIHPFHLVIHNESTCEQLAEANAGK PKDPTFIPAPIQAKTSPVDEKALQDQLVL VAAKLDTEDKLRAAMVAGMLANFLGFP YYMGMHSE\WGV\VG\ATVLSPTAVF GTLASLYLGALDHTADRLQAILGVPWK DKNCTSR\DAHKVLSAL\QAVTGLLVAP GRADKQ\A\QLL\STVVGVFTAPGLHLK QPFVQGLALYTPVVLPRSLDFTELDVAA ETID\RLMQAVTGWKTGCSLTGAKADST LAFNTYVHFQGMKMGFSLLAEPQEFWV DNSTSVSVPMLSGMGTQHWSDIQDNF SVTQVPFTD\SAFLLLIQPHYASDLADKVE GLTFQQ\N\SFNWMRKLFPRTIHLTMPQL VLQGSYDLQDLLRPGSSCPPFLHTELNL GRISGN\DRIRVGEVLNSIFFELEADEREP TESTQQLNKP\EVLE\VPLTRPFLFAVYD QGATALALSWGRVVGKPA
2381	10432	C	3306	223	417	
2382	10433	A	3307	3	742	HEASCRSERRRQMAFDFTYDDRAYSSF GGGRGSRGSVAGGHGSRSQKELPTEPPYT AYVGNLPF\NTVQGDID\AIFKDLIRSIVR LVRDKD\TDKFKGFCYVEFDEVDSLK\EA LTYD\GALLGDRSL\RV\DAEGRKQDKGG F\GF\RKGGPDDR\GFRDDFLGGRG/GLSR PGDRRTGPPMGSRAFRDGPPLRG\SNMDF REPTTEERAQRTTTPALKPRTVATPLNQ VANPNSS\IFGGARPREEVVQKEQE
2383	10434	A	3308	1	861	
2384	10435	A	3309	1	2076	
2385	10436	B	331	396	809	MAGCRSRALPHGEAAKAQRKVTAAGP GAKHLTAWGWQGLATPSVGPAPHTHT QNSHWPASAVCSPSSRLRLSLHTYPQAE GAGSGLGQPRKGLPQCSSRLKGSSSAK VGAQAEVPRASEACEGCQHAVTSHKY *
2386	10437	A	3310	34	657	SDGRCGRCCAPRAPRAMHMSFAIS/RCA FYQLLLAALMLVAMLQLLYLSLLSGLH GQEEQDQYFEFFPPSPRSVDQVKAHVRT ALASGGVLDVSGD\YRV\YRGLLKTMD PNDVIL\ATHASVEQTCLHL\SGLL\ERW EGPAVPCSVFAA\TKEEAQLATVLAYAL SSHCPDMPARVAMHLVCPSRYEAAVPD PREPGEFALLRSCQEVFDKLARVAQPGI NYALGTNVSYPNLLRLNAREGANYAL VIDVDMVP\TEGLWRGLREMLDQSNQW GGTALVVP\AFEIRRARRMPMNKNE\LVQ LYQVGEVRPFYYGLCTPCQAPTNSRW FNLPEESLLRPAYVVPWQDPWEPFYVAG GKVPNFRSGFRQYGFNRISQACELHVG GFDFEVL\NEGFLVHKGFKEALKFHPQK EAENQH\NKILYRQFKQELKAKYPNS\PR RRAQLATVLAYALSSHCPDMPARGRHA PRVPLALRGSRARPPGAGGVCPAAVLPG GL
2387	10438	A	3311	160	441	
2388	10439	A	3312	107	691	RTAILSRMKIFLPVLLAALLGVERASS\A MCFSCNLQKSNLYCLKPTICSDQDNYC VTVSASVAGIGNLVTFGHSLASKTCFPCL APFPEGRSMLGV\ASMGHS AFCQSFLVAI FSCGPMAGLRGKRSPLLGARACCLSLAG RALLRFGPLDRPEPCSPDPPAQEGKPSPF WIPQCMGAPDSSRALICALGPRSG
2389	10440	A	3313	388	525	

2390	10441	A	3314	194	1131	PQHGGHFPRKIKSCSWQARPLEDEATLG QCGVEALTTEVTRPACLEVKSMVWP VLEKVRGQTPKVAKHGEKKKKKTGRAK RRMQYNRRFVNVPVTFGKKKGTTFTKIF VGGLPYHTDASLRKYFEGFGDIEEAVVI TDRQTGKSRGYGFVTMADRAAAERACK DPNPIIDGRKANVNLAYLGAKPWCLQTG FAIGVQQLHPTLIQRTYGLTPNYMYPPI VQATVVIPAAPVPSLSPPYIEYTPASPAY AQYPPATYDQYPYAASPATVRSFVGYS YPAAVPQALSAAAPAGTTFLQYQAPHV QPDRMH
2391	10442	A	3315	1	407	DAERQEALGIVRRIGTDTEAATEPAGAT VPAAAAAARIGTVGPQPPAMPRKRNA GSSSDGTEDSDFSTDLEHTDSSEDGTSR RSARVTRSSARLSQSSSRISRSCSKSGSLL ALRSLTLPEE*PVVSSSLPQ
2392	10443	B	3316	78	316	XSYLLGQWPRDADGAFTCCTNDKATQT PLSWQELEGERRASSCAHKRSASWGSTD HRKEISKLKQQLQRTKLSRSGKEKERX*
2393	10444	A	3317	1	2319	GHPAFLEDGSPSPVLAFAASPRPNHSYIF KREPPEGCEKVRVFEEATTRGKYGEGAK QETFTFALTIVFIQCVINAVFAKILQFFD TARVDRTRSWLYAACISYLGAMVSSNS ALQFVNYPTQVLGKSCKPIPVMLLGVT LKKKYPLAKYLCVLLIVAGVALFMYKP KKVVGIEEHTVGYGELLLLLSLTLDGLT GVSQDHMRAHYQTGSNHMMLNINLWS TLLGMAVSCPDQGPVPRCPFVQALE KPS
2394	10445	A	3318	845	1343	LSLGDSAQCLLPHASWCQVAGHPAFLE DGSPSPVLAFAASPRPNHSYIFKREPPEG CEKVRVFEEATS/RRVLTGPFLTSCPDKN KVHFQPTGSAFCPVNLMKPLFPGMGFIF RNCPSNPGISSSPGQPQATTSEGSGLQG LPTAIRAMAVAPHLQMSLCFSRAP
2395	10446	A	3319	44	498	
2396	10447	A	332	130	249	
2397	10448	A	3320	1	164	
2398	10449	A	3321	2	438	ARAARVFLHRSSLNLSNGETESVKTIV HDDVESEPAMTPSKEGLIVRQTQSASST LQKHKSSSFTPFIDPRLLQISPSGTTVTS VVGFSQDGMPEAIRQDPTKGSVNV NPTNIRPQSDPPEIRKSGKG*L*ILGAGLW
2399	10450	A	3322	3	174	
2400	10451	A	3323	2	4978	RRTSAVSRGLLFMSFVQPLLQPPVHLLT ARVRVPGYLQIDGVKIKEHNGKLMNCF KTKMTYYSFMKCVGLPAQLTIGFSGPSR ETGSDPRAARRGEDPQSKDRGDGLSEQT EAQRSGVHCPRSQLVGELAGQSPRTIPA ALRVCLYLLCITSYNHTSKDESSKDEEEE IKLEINMLKKYSHRNIAITYYGAFIKKSP PGHDDQLWLVMEFCGAGSITDLVKNTK GNTLKEDWIAYISREILRGLAHLHIHVI HR
2401	10452	A	3324	197	332	
2402	10453	A	3325	1	1788	
2403	10454	A	3326	3	111	
2404	10455	A	3327	220	423	HEELKSGPYLLTFRDCFLHFWALVSKR /LALNFM*TSAPT*KALSKRNICLVNKNR NIKIPYPKKKKK
2405	10456	A	3328	273	499	RSQVRDQPGQHGKITSLLKIQKLARRGG ACL*SQLLRRLRQENRLNPGGGGCSEPR SCHCTPAWETEQDSISKIK
2406	10457	A	3329	1	1176	
2407	10458	A	333	1	3408	

2408	10459	A	3330	245	394	
2409	10460	A	3331	458	701	GPAPTRRGPAHPGAHTR**PAGTARAAC GSA*SAGTASPAHKKGKGGHPGSRASGTG PGPCQRRRRSDHSSAGKWPLREASL
2410	10461	A	3332	365	814	AALRSSENSSRHRSLVKMSDKKAKDPV N\KSGGQGPKRKNWSKKGSSGTSFNNL VLFDKATYDKLCKEVPNYNLITPAVGSE RL\KIRGSLGQKPFQELLS\KGFIPNWFS KHRASSYFTPGITKGG\DAPSLLGEDCMN RSNPPVHLEK
2411	10462	A	3333	41	565	APSPRRPWGHFTEED\KATIKNLWGKGE MWKDAGGKNPWERLPWLSYPMGPQRF FDQLLANLSLCPLPIMGNNPKVKGTWPR KVLTSLG\SAHKSTWDDLKGHLLPKPEV NLHC\DKPAMWDPENFKAPGEMLLVTR FGQSHFRQKNFTPGGCRASWGRKMMDL ELASALVPSRYH
2412	10463	A	3334	399	592	KCIHFPGPPTKFCVCGVIVVTAVP/TFGM* TVYV**LPFSILAQNVG*RDDCDPGWKL NLFYAKKKK
2413	10464	A	3335	28	312	
2414	10465	A	3336	26	417	
2415	10466	A	3337	16	3567	
2416	10467	A	3338	6385	6599	
2417	10468	A	3339	2	758	
2418	10469	A	334	3	443	SFQGGLEGEAWAGTGAAPGACGPARPV GGRRLRGPRTRPAGPTGPGQ*G/VLAPGP AAAVL/RFLTGP*LPSRSRARDREGLQLH S*SQRDHEPTGRN/GTTPDAPP*EL*HSPR RSAASLCPQAPEVSPQGSQVPALSGNSP QRLLLPT
2419	10470	A	3340	116	627	
2420	10471	A	3341	1830	2259	
2421	10472	A	3342	1	619	
2422	10473	A	3343	1830	2258	
2423	10474	A	3344	290	1377	RSFRAIGEVGSIRGWGGGYAAQLQSPSR LPVLGGGKKGGSRGVGGSSRAEVGLG SQRERSGTCGAEAAAAAQLIAGTGSSL PYQGPQGNQTAIAPTCAPLSPCKAAAVI MGNIFGNLLKSLIGKKEMRILMVGLDAA GKTTILYKLLGLEIVTTIPTIGFNVETVEY KNISFTVWGCGVARDK\IRPL\WRHYFQ N\TQGFILWSDSNDR\ERVNEAREEL\ MKNAGAETSLRDAVLLVFGQTNRICPN AMNAAGIQDKLGLHSLRHRNWN\QAT CATRGN\GLYEGHLWLANSVPKQEVESR TALT\KHSTSP\TYLLSPCPQLPLLSMQG LARA\WGIMSTLPSRTLPLTSLPFSCPPI
2424	10475	A	3345	292	574	VTTENSGGQTQCGKQDRIQVPRHPARRG PPGSQY/PVTPPVPPGPLHATQLPPGPIPL GKRKAGQERRLDPRPTTCQAAAPTRSSP FCPPQKVWR
2425	10476	A	3346	3	142	TISSHRKARKP\QDLLNNYTPRSSPLRSSG RTRMYKGNVRPGNSS

2426	10477	A	3347	1	1418	MAAALFVLLGFALLGTHGASGAGEERA RKQPCGKSRFQGHSEALATRFSAAGNTG FVQAPLSQQRWVGGSVELHCEAVGSPV PEIQWVFEGQGPNDTCSQLWDGARLDR VHIHATYHQHAASTISIDTLVEEDTGTYE CRASNDPDRNHLTRAPRVKVVRAQAV VLVLEPGTVFTTTVEDLGSKILLTCSLND ATEVTGHRWLKGGVVLKEDALPGQKTE FKVDSDDQWGEYSCVFLPEPMGTANIQL HGPPK\VKAVKSSEHINEGETAMLVCKS ESVPPVTDWAWYKITSSEDKALMNGSE SRFFVSSSQGRSELHIENLNMEADPGQY RCNGTSSKGSQAIIITLRVRSHLAALWPF LGIVAEVLVLVTIIFIYEKRRKPEDVLDAL RRCTWPGLMSCPEPLGVTEGRAGSTDA PARGLSGASADRLSSRPLFHGGGPPSSDD DAGSAPLKSSGQHONDKGKNVRQRNSS
2427	10478	A	3348	3	896	SCRGRRRQRLEVVRGFRRGIGIMAAALF VLLGFALLGTHGASGAAGTVFTTTEDL GSKILLTCSLNDSEVTGHRWLKGGV VLKEDALPGQKTEFKVDSDDQWGEYS CVFLPEPMGTANIQLHGPPRVKAVK\SS EHINEGETAMLVCKSEFVPPVTDWAW YKITSSEDKALMNGSESRFFVNSSQGR SELHIENLNMEADPGQVRCNGTSSKGL RPRPLQFLVRSHLAALWPF LGIVAEVL VLVTIIFIYEKRRKPEDVLD DDDAGSAPL KSSGQHONDKGKNVRQRNSS
2428	10479	A	3349	870	997	KWASNTYVISSNEESMIS*LSGRQ*NLRV WRLRKTWWLNLWTL
2429	10480	A	335	2	306	
2430	10481	A	3350	2	225	GILKGLYYPLATNSFPATCWRL*VSPAHS KDPRNAATVHLSFFSPSGGPRYLLGHIT WQQGLGKRGRRTTEQHSL
2431	10482	A	3351	1	336	
2432	10483	A	3352	1193	2524	SKPPAASFAPRRPPATSRTL SAACAFRSR CRLAACSFVRPLPHTDTNMNGQLNGFH EAFIEEGTFLFTSESVGEGHPDK\CDQIS DAVLDAHLQQDPDAKVACETVAKTGMI LLAGEITSRAAVDYQKV VREAVKHIGYD DSSKGFQDYKTCNVLVALEQQSPDIAQGV HLDRNEEDIGAGDQGLMFGYATDETEE CMPLTIVLAHKLNAKLAE LRRNGTLPWL RPDSKTQVTVQYMQDRGAVLPIRVHTIV ISVQHDEEVCLDEM RDALKEKVIKAVVP AKYLLDDVTIYHLQPSGRFVIGGPQGDAG LTGRKIIVDITYGGWGAHGGGAFSGKDY TKVDRSAA YAARWVAKSLVKGGLCRR VLVQVSYAIGVSHPLSISIFHYGTSRKSE RELLEIVKKNFDLRPGVIVRDLDLKKPIY QRTAAYGHFGRDSFPWEVPKKLKY
2433	10484	A	3353	346	461	

2434	10485	A	3354	3	1632	MTEQLEPILMQAFIKSTAGLEARKLKAY RTMEYMAKSTDRSPGHILCCECGVPISP NPANICVACLRSKEDISQGIKQVSISFCK QCQRYFOPPGTWIQCALSRTGTFLLWCL EKNPKPLWSKVRLVDAGFVWTEPHFK RLKVKLTIQKEVMNGAILQQVFVVDYV VQSQMGDGHSEKLDKDFWKA\AVIQVR QKTLHKKTFYYLEQLILKYGMHQNTLRI KEIHDGLDFYSSKQHAQKMVEFLQCT VPCRYKASQRLISQDIHSNTYNYKSTFSV EIVPICKDNVCLSPKLAQSLGNMNQIC VCIRVTS\AIHLIDPNTLQVADIDGSTFWS HPFNSLCHPKQLEEFIVMECSIVQDIKRA AGAG\MISKKHTLGA\EVWGTEGHLEMNY RIKQYFCRT\HLGTSC\NPGD\RVLGFDL AN\CNL\NDEHV\NKMNSDR\VPDV\LIKKS YDRTKRQRRRNWKLKELARERENMDT DDERQYQDFLEDLEDEAIRKNVNIYRD SAIPVESD\TDDEGAPRISLAEMLEDLHFS PGCPLVKEGASMLT
2435	10486	A	3358	231	877	PKPGGYSQCR\TSSR\ATERNRIDYVSSA VPYL\TTPDLPRPEV\VF\IGRSNV\GKSSL IKALFSLAPEVEVRVSKKPGHTKKMNF KVGKHTVVDMPGYGFRAPEDFVDMVE TYLKERRNLKRTFLLVDSVVG\IKTDNI AIEMCEEFALPYVIVLT\KIDKSSKGHLLK QVLHIQKFVN\MTQGC\FPQLFPVSAVTF SGIHL\RCFIASVTGSLD
2436	10487	A	3359	3	234	
2437	10488	A	336	243	748	PCQSFQPSGFGKDRPTSLEQRSQRERQA AIFAVSQPSLVIPPGTGKSEVNADRSRPP AYCSNLGRYSGPGPSLVIPPGTGKSEVN ADRS\GPPAYCSNHFPSALP**RSSMRSL LQQTSAWTCRHFHTSFEIQ\RGGSQILTL AFCAPAG\TPRGSHVLGLAPSEALT
2438	10489	A	3360	25	546	QSGDLGGRLSRSENC\SQRVVRHVRVGA VMAGVLKKT\TG\LVGLA\VCNTPHERLR ILY\TK\LDVLEEIPK\NAA\YRKYTEQITN EKLAMVKAEPDVKK\LEDQ\AQGGQ\AEE VIL\QA\EHENLAKKK*GEWKL\WEPLA\V E\EP\ADQ\WKWANI\IKLTLVVFMGKLD VIKIFYI
2439	10490	A	3361	2	367	YAGFSLSAQKCPGAMAE*SYAKSTKLVL KGTKTKSKKKKSKEKKRKREDEETQF D\TVGTIAIEMDEGT\YIHALDNGLFTLGAP HKEG\KMALLASNGCFIRCNEAGDIEAK SKTAGEEEMIT
2440	10491	A	3362	268	393	DGRRKEKWHKVERRHRPYLLSSLSQHR W*TVTNFGEISGTIAIEVDEGT\YIHALNN GLFTLGAPHK\ERIALKPGYGKYL\INSND ELVV\GRSDAIGPREQWEPVFQNGQEVNR GGPAEMGEEKRNGTKWREDTDHTSFPL FPSTGGQPKAHSNWRKVCH
2441	10492	A	3363	6	223	TVTNFGEISGTIAIEMDEGT\YIHALDNGL FTLGAPHK\ERIALKSGYGKYL\GINSDEL VGHS\DAIGPREQWEH
2442	10493	A	3364	329	877	RPWKQDRRAGDPWPR\THEFRSSEASLQ ASACKKKKSKEKKRKREDEETQFDMF GIW*TVTNFDEISGTIAIEMDEGT\YIHALD NGLFTLGSS\TQRRIALKSGYGKYL\GINSND ELVV\GRSDAIGPREQWEPVFQNGACAA VFTVIGSEKQSECSLLRESRAKYHGCTH GQISSSLKQHPRWMY

2443	10494	A	3365	97	704	AGFSLSAQKCPGAMAE*SYAKSTKLVLK GTKTKSKKKKSKEKKRKREDEETQFD/ VGIW*TVTNFDEISGTIAIEMDEGTIHAL DDGLFTLGAPHKEG\KALLASNGCFIR CNEAGDIEAKSKTAGEEEMIKIRSCAERE TKKKDDFLEEDKGNVKQCEINYVKKFQ SFQEHKLKISKEDSKILKKAQKDGFLHET LLDR
2444	10495	A	3366	24	981	AIQRLGEDGGGFYRDVGCQGVFISRP FLRAPVLPRLTYSSRTGLSLSAQKLP MAEYSYVKSTKLVLKGTKTKSKKKSK DKKRKREDEETQLDIVGIWWTVTNFG ISGTIAIEMDKGTIHALDNGALFTLGAP HKEASDEGSPPEQFTA\VKLSDSRIALKS GYGKYLGIIRDGLVVG\RSDAIGPREQW EPVFK\MGKMALSTSNCFIR\HEAEDIE AKSKTAGEEEMIKIRSCAERETKKDDIP EEDKGNVNKCEINYVKKFQSFQDHLKI SKEDSKILKKARKDGFLHET\LDRAK LEADRYCK
2445	10496	A	3367	1	555	PLKRS DGCNDGRPTRPPTRPDTTVFTSNL KQTRMVHLTPEEKSAVTALWGKVNVD EVGGKALGRLLVVPW\TQRFFE\SFGD LSTP\DAVMGNPKVK\AHGKKVLGAFS GGPGCTWDNLKGTFAHTEVSLHCDKLH RGS LKNFRLG\NVGLGLCCLAHSLGKEF QPHQLQACLIKIGWLGVG
2446	10497	A	3368	1	390	WEEIQELNEVARHRPRSTLVMGIQENR QIRELQENKELRTSLEEHQSALELIMSK YREQMFRLLMASKKDDPGIIMKLKEQHS KELQAHVDQITEMAAVMRK\PLKLT SNRVARNKNEYFNLNKKTKA
2447	10498	A	3369	769	912	FPTPIPLFQELQAHVDQITEMAAVMRK\P LKLT SNRVARNKNEYFNLK
2448	10499	A	337	514	967	APACCPAAVSPFLCEPTLIHPHPDLKE DTGQKHRGAQSHPTLAGAGLAGRSSKQ PSPSAISIWHSD\GTSSCDRRQCDRLPS ALLSPHLRCSQPATRQLESS*TPPGTADL FLASSGPNPRAFSNARSVRKCKATSEKS KPKSYQGS
2449	10500	A	3370	1	463	MKKNIAFLASMFVFSIATNAYADIQMT QSPSSLASVGDRTITCRSSQSLVHGIG NTYLHWYQQKPKGAPKLLIYKVSNRFS GVPSRFSGSGSGTDFTLTISGLQPEDFAT YYCQHYDSLPTYTFGQGTKLE\KRTVAA PSVFIFPAHLMSS
2450	10501	A	3371	2	166	
2451	10502	A	3372	39	1200	FCGVAAMQLEIQVALNFIISYLYNKLPRR RVNIFGEELERLLKKKYEGHWYPEKPY KGS GFR\CIHIGEKVDPVIEQASKESGLD DDVRGNLP\QDLESFRIDPFEVSQIGEK GPVKVLYVDDNNENGCE\LDKEIKNSFN PEA\QVFMPISDPASSVSSSPSPFGHSA\A VSPTFMPRSTQPLTFT\ATFAATKF\GST K\MKNSG/RGSSRFARTSPINLRLGMWN DLLEGRKAISSS\MHSLYGLGLGSQQQP QQQQQAQPPPPPPPPQQQQQQKITSALS PNAKEFIFPNMQGQGSSTNGMFP\GDSP LNLSPLOYSNADFVFA\TYGGLNEKSFV DGLNF\SLNNMQYSNQFQPCYGLTKKK KMYRTKLKCTGPRGIFFFSP
2452	10503	A	3373	1	1197	
2453	10504	A	3374	66	632	RRDPRTPANMALRVVRSVRALLCTLRA VPLPA\APCPPRPWQLGVGAVRTLRTGP\ ALLSVRKFEKQESGNNQEKSMNQLGS GNFAQAEALGDVVYCSLPEVGTKLNKQ\ DEFGALESVKAASELYSPLASGEVTEINE ALAAENPGTCKTNFCY\EDGWLIKMTLSN PSEL\DELMSEEAYEKYIK\SIEE

2454	10505	A	3375	162	552	VASEHSPKIGASQGLDYEPLLVVAKVWY LTRPTGTKAGSVFSQYLPFLEPGILGPAS LPWLRQTLTGKEIEIDIEPTDKVERIKER VEEKEGJPPQQQRLHLQVAKQMNDK TASWITKILRWVQSFQT
2455	10506	A	3376	77	427	GRDKEGEYPPAPSSGWGKSGVIML TELE KALNSIIDVYHKYSLIKGNFHAVYRDDL KKLLETECPQYIRKKGADVWFKELDINT DGA VNFQEFLILVIKMGWQPTKKAMKK ATKSS
2456	10507	A	3377	1	143	
2457	10508	A	3378	200	899	GKSTGPVCVHMSLCEWTL SLATRVSLSS HP SHQSHSHLLVWLFGE SRPGQGLRLGH ESSAYCPGQM QIPCHGIPQKVLFFRWGK SVGIML TELEKALNSIIDVYHKYSLIKGN FHAVYRDDLKKLLETECPQYIRRRGLG WRGLSAWSWGCPGPAVL PATLHRWLCL GSL*DL*TLASSSILT KKGADVWFKE DINTDGA VNFQEFLILVIKMGWQPTKKA MKKATKSS
2458	10509	A	3379	99	497	RESGGKRLNIYHQTVYHVKYSLIKGNFH AVYRDDLKKLLETECPQYIRKKGADV WFKELDINTDGA VNFQEFLILVIKMGW QPTKKAMKESHKGVSLSLGPKGWAL GGHVTCRIIKVINTSKKKKKVDA
2459	10510	B	338	1	456	MKLRLTAVSATALKVARLEFPFDVRM CSEFLSSGVKLQTF AVSVTALNARLELF VPPGGLMVSLASGVKLQIFTVSVTAHKS SVDPKTLGWSMGLGAVEQGAALIGEAW AAQEPMEGVGGSGMAGCRSRALPRGKA AKARREIERSAGH*
2460	10511	A	3380	1	282	PLKRS DGCNDGRPTRPPTRTTVFTSNL KQTRMVHLATPEEKSAVTALWGKVNVD EIVGGKALGARLLVVLPLGPPKGLKSFG GICPNLSNAG
2461	10512	A	3381	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDFSFGNLSASAIMGN PKVKAHGKVKLTSLGDAIKHLDDLKGT AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
2462	10513	A	3382	3	549	FCPRGQEFGEKNLLVPDAMGHFTEED KATINTSLWGKVNVEDAGGETLGRLL VVYPWTQRFDFSFGNLSASAIMGNP KVKAHGKVKLTFLGRCQSTLDDLKGH LLPKPEVNCTVDKPAWDPENFKAPGE MLLVTRFGQSHFRQKNSPPGCKASWA ERWVTGVASALVPSRYH
2463	10514	A	3383	347	716	REPCVSRSTCCPLPWMEPRAMCPPVGA MRGSRDPASSSLPDHLAQLQPGAGFL FCSAPALSGSFPPRPSQGH LATAGSWL/ CPPVQAQPAPALCGPRRGVAWVGIAW EDSGKSVGEVAS
2464	10515	A	3384	1	1362	
2465	10516	A	3385	284	540	KLFQKKNKKSSCISDNFFFLAIMVNLLQ IVRDHWVHVLPVPMGFVIGCYLDRKSD ERLTAFRNKSM LFKSFPHRELQPSEVT WK
2466	10517	A	3386	194	353	
2467	10518	A	3387	57	880	DPHSVSSTGGPLIWFWPLSSGPGAVAA DPAQSGSPTVDAGVPIPHIRARDSARLP LCPWHASALELG IATPGTVTTQAPGSYP AWRSRCLLYPQSPVLLASLGVLVTLG LAVGSYLVRRSRRPQVTLDPSEKYLLR LLDKTVSWGRKGQEGGDQSAPGM*GT APT VVGMSKGRGSARRAW*NTCVLHPP TVSHNTKRFRFALPTAHHTLGLPVGKES VEWAPFPQYQKVTPLLGSHETRCFNRF APHTISPPTWLCILQAVRCHWA

2468	10519	A	3388	430	483	NQPCLTLPTRKSECTDTVISWSLSFGFLF TRWVTGMAVLLRLSLRQAEYTHSQQLL PLDT*RLGNVVKFRGPASGLLSYTGKGHF NIQPNKKSPPPEPRVAKKLGMIAGGTGITP MLQLIRAILKVPEDPTQCFLLFATQTEKD IILREDLEELQARYPNRFLWFTLDHPPK GILPISGHPTIPSSSKSKPCFVNSGFIEINL ASHCQLGSLSAQTQ
2469	10520	A	3389	3	1007	HACAHASAHASGRVLVRWGRKRRSVMGI QTSPVLLASLGVGLVTLGLAAGSYLVR RSRRPQVTLDPNEKYLLRLNKTTVSH NTKRFRFALPTAHHTLGLPVGKHIYLS RIDGRVRNKPYPVTSDEDDQGYVDLVK VYLKGVQPKFSEGKMSQYLDLKV DVVEFARGPSGLTYTGKGHFNIQPNKK SPPEPRVAKKLGMIAGGTGITPMLQLIR AILKVPEDPTQCFLLFANQTEKDIFAGG LKRNLQARYPNRFLWFTLDHPPKDW YSKGFVTADMIREHLPAPGDDVLVLLCG PPPMVQLACHPNLGQGTGVTSQKMAISP Y
2470	10521	A	339	1	1519	MAPELSSKEQPGSEWKKACQMEGTVCA KAQRDLLDGFQDQADDDMDNEIQAEM VSDGDEELVGNWSKEPTTLGAATMGLG TEKQLGMGWAGRKGPIEDLEPLQAAC KLHAVAHTTWEAVQCGSLPRRNSNLL LEQGVLEETRNLQEHGGEIDLEKKRWL GTVAHTCNASTLGGRGVKLQFTVTSITA PKAARLELFVPPGGLVLLASGVKLQIF AVSVTAHKSSVDPKTLGWSMGLGAVEQ EVVLVGEAPAAQEPMEWVGGSGMGAA GPGALPRGKAAKARREIEHSAGLYKLLP HSEYSRPNRVPFNSQGSNPVRVSVNLN DQSGNGDRLCFNVGRELYFYIKGVK TIP*GCRTEILISVLTEAADLSKPIDKRIY KGTOPTCHDFNHLTATAESVSLVGFSA GQVQLIDPIKKETSKLFNEEAFEGRYATF FTI/WYECSHGKLHSSALGLVFFGGDISY SLSSQPAPLEGASRDSGSRGHELWSESSR KRNNKRH
2471	10522	A	3390	2568	2781	RSPGRPPHDPNAPV/RRPASCHS/AAESQ HGGWKKSKISASRKLQKLTLLQIAKQE/ LEREAERRGEKGRAL
2472	10523	A	3391	2	409	
2473	10524	A	3392	3	490	SSPEETVGPWDPEGHGGPLTDPNAPV LALPPAIPGLSLIMADGSSDAVRAAG*GV AGTPRARAREPRPAPAPIRRRSSNYRAY ATEPHAKKKSKISASRKLQKLTLLQIAK QELEREAERRGEKGRALSTRCQPLELA GLGFAELQDLCROLHARVDK
2474	10525	A	3393	2023	2613	
2475	10526	A	3394	150	848	VSAWRNGSSDAAREPRPAPAPIRRRSSN YRAYATEPHAKKKSKISASRKLQKLTLL LQIAKQELEREAERRGREGARSLAPRC QPLELAGLGFADLPGLCCRQFHARVD KVDEERYDIEAKVSKNITEIANLTQKIF DLRSKFKRPTLARRVRISADAMMQALLG ARAKESLDLRAHLKQVKEDPEKENRE VGDWRKNIDALSGMEGRMKKWRELSLP AYCPCPEEGH
2476	10527	A	3395	1	2880	

2477	10528	B	3396	61	5070	MGPTSGPSLLLLLTHLPLALGSPMYSIT PNILRLESEETMVLEAHDAQGDVPVTVT VHDFPGKKLVLSSEKTVLTPATNHMGN VIFTIPANREFKSEKGRNKFVTVQATFG TQVVEKVVLVSLQSGYLFQTDKTIYTPG STVLYRIFTVNHKLLPVGRTVMVNIENPE GIPVKQDSLSSQNQLGVLPPLSWDIPELVN MGQWKIRAYYENSPOQVFSTEFVKEY VLPSFEVIVEPTEKFYIYNEKGLEVTI
2478	10529	A	3397	3	560	EGKGQGTLSVVTMYHAKAKDQLTCNKF DLCLPGSRQKVEVFLGPCLPQGTFLWSR NRRVLGFPSMNGEDMGLFLCSEWERSS EGWLCNREGSGHSIEPHCCTFLHLTHR SLAFSLLAGVSCTCASSCKCKE/CKCTSC KKSECGAISRNGLGLWLVGREPKAVPEV RASGEPAFLCPCRLSLPV
2479	10530	A	3398	3	1584	SNQPLRREAFPETPKGLRQGIPGEPENG RSHFFSFDVTAVMILYKESQALTGNLPG POLPRRLAAGRGGHPSVPAPSRRGALS RFPASGRSAVPTIGWLCSHYPHSIRGAN GWDROELVRASHTMSATAQTNHRAEK AGRELSQANNDRGTGRLAHPAPPPSARQ VPRLEHLASPRCRWPAVISRPFERSWHCIL EIRFRKGKLGGRASPENEGAGEIRVKVP KDRDWLTAKLQGDLLTVSQTAKLEDMV LQTAKSTQDFLTPTARSYSPTTKLKGKV NTKSPITLLTPTARGRHLYLLGAPIASWRC HTSTIRYHTVVVMSMTLSEHQAGSVD MSANDYAHYSGASGDNEMCVVIACPTP LFLSPRAWKPCDAGSKVKNWGIENGNL VHTVLSSTQHGDPEHVHAPFGMEAEYA HPLETILIGTGFFIGIVLLCDHVILLWAW VTIRLLETIDVHSGYDIPLNPLNIPFYAG SRHHDFFHMMNFIGNYGFQHFTRWDW NFLGTD SQYNAYNEKRKKFEKKTE
2480	10531	A	3399	2	873	GRVGEMSQGRGKYDFYIGLGLAMSSSIF IGGSFILKKKGLRLARKGSMRAGQGGH AYLKEWLWRAGLLSMGAGEVANFAAY AVAPATLVTPLGALSVLVRAILSSYFLNE RLNLHGKIGCLLSILGSIVMVIHAPKEEI ETLNEMSHKLGDPGFVVFATLVVIVALIL IFVVGPRHGQTNILVYITICSVIGAFSVSC VKGLGIAIKELFAGKPVLAGIPWAWILLSS LIVCVSTQINYLNRPWDIFNTSIVTPIYY VFFTTSVLTCSAILFKGVGKDMFVGRCP LVL
2481	10532	A	34	2583	3580	DRVSLLPRLECNGAILAHCNLCLSGSSD SPASASQVTGITGKCHHTQLIFVFLVEMG FHHIAQAGLELLTS/DSPTLASQSAGITGV NHHAWLFFFC/SDTVSLCYPGWSRVA* SRITATSA/PGLK*FACFSLPSSRDYRHVP PHPGNFCIFGRDEVSPCWPGWF*TPDLR/ YPPASASQSAEIGVSHHTWPQEVFLFLN LFIYLRWSL/DSVAQARVQRRDLGSLQA PPPRFKPFSCSLPSSWDYRRPPHPANFF VFLVETGFTVLARRVLIS*PRDLPASASQ SAGITGVSHHTR/LIF/NFFETGTHSVTWA AVQWYTI/GSLQPRTPELK*SSHLILTSN WDYRCTPPCPNLFYLYFYFHRDEGSLC CPGWS*TPELK
2482	10533	A	340	759	1034	
2483	10534	A	3400	90	458	HFSRGYLEAFSEISNIRFVPPHSVTVVVV FGACFLCILGIWPWACLPGPGGEGSGGF GEGRGSEAGRLGSVELTPATLPLQAPEA YPVFEPVPPVPEAAQGDTEDEGAPPLK RICPNAPDP

2484	10535	A	3401	3	787	PGSTISWRPGLARSLSPDGRPRRLGLGP GPSPASMAGR TVRAETRSRAKDDIKKV MATIEKVRRWEKRWVTVAAATPFRILNW VA\VVDPQEEER\RRAGGGAERSRG\RRER RGRGASPDGGG/PLFILLDLNDENSQR FPLRKGS LQRGTE\PSPGGTPK\PNRPCVT LPDPPEGGPCTRAQPPT/RLGQEERSPGGI TV\GSTDEPP\MLTKEEPVPELLEAEAPEA \YPVFEPVPPVPEAAQGDTEDFGSAPP\LK RICPNAPDP
2485	10536	A	3402	1	172	
2486	10537	B	3403	1	5501	MVSKLSQLQTELLAALLESGLSKEALIQ ALGEPGPYLLAGEGPLDKGESCGGGRGE LAELPNGLGETRGSEDETDGDEFTPI LKELENLSPEEAAHQKAVVETLLQEDPW RVAKMVKSYLQQHNPQREVVDTTGLN QSHLSQHLNKGTPMKTQKRAALYTWYV RKQREVAQQFTHAGQGGLIEPTGDELP TKKGRRNRFKWGPASQQILFQAYERQK NPSKEEREAQGLGSNLVTEVRVYNWFA NRRKEEAFRHKLAMDTYSGPPPGPGPGP ALPAHSSPGLPPALSPSKVHGVRYGQP ATSETAEVPSSSGGPLVTVSTPLHQVSPT GLEPSHLLSTEAKLVSAAGGPLPPVSTL TALHSLEQTS PGLNQPPQNLIMASLPGV MTIGPGEPASLGPTFTNTGASTLVIGLAS TQAQSVPVINSMGSSLTTLQPVQFSQPLH PSYQQPLMPPVQSHVTQNPFMATMAQL QSPHALYSHKPEVAQYTHTGLLPQTMLI TDTTNLSALASLTPTKQVFTSDTEASSES GLHTPASQATTLHVPSQDPAGIQLQPA HRLSASPTVSSSLVLYQSSDSSNGQSHL LPSNHSVIETFISTQMASSSQ*
2487	10538	A	3404	158	755	RGGRPAWPCGSRAMVSKLSQLQTELLA ALLESGLSKEALIQALGEPGPYLLAGEGP LDKGESCGGGRGELAEPLNGLGETRGSE DETDGDEFTPI LKELLENLSPEEAAHQ KAVVETLLQEDPW RVAKMVKSYLQQH NIPQREVVDTTGLNQSHLSQH/HQQGHS HEDAEAGRPVHLVRPQAARGGA AVHPC RAGRAD
2488	10539	B	3405	133	2369	MVSKLSQLQTELLAALLESGLSKEALIQ ALGEPGPYLLAGEGPLDKGESCGGGRGE LAELPNGLGETRGSEDETDGDEFTPI LKELENLSPEEAAHQKAVVETLLQEDPW RVAKMVKSYLQQHNPQREVVDTTGLN QSHLSQHLNKGTPMKTQKRAALYTWYV RKQREVAQQFTHAGQGGLIEPTGDELP TKKGRRNRFKWGPASQQILFQAYERQK NPSKEERETLVEECNRAECIQRGVSPSQA QGLGSNLVTEVRVYNWFANRRKEEAFR HKLAMDTKVHGVRYGQPATSETAEVPS SSGGPLVTVSTPLHQVSPTGLEPSHLLS TEAKLVSAAGGPLPPVSTLTALHSLEQTS PGLNQPPQNLIMASLPGVMTIGPGEPAS LGPTFTNTGASTLVIVPTLDQSLCYISDT WVNQTDQNLSSSREAGTKHNTSILWY LRRPGLHAGTECAGHQHQHQQPDHLQP VQFSQPLHPSYQQPLMPPVQSHVTQSPF MATMAQLQSPHX*

2489	10540	A	3406	1	2112	MMLKGKAHCSILDFGFLDLQCSTNSAAE FIRSWEDPWRVAKMVKSYLQOHNPQR EVVDTTGLNQSHLSQHLNKGTPMKSQK RAALYTWYVRKQREVAQPHIPIPIENS TGTEWLIETWLDPTHAKNDQEHRTDSP VNYGKKKGKENKNLKPPEVYVSLIKA CGGPGNFCPSFSELQRNFVKHRPTKLKS LLRLVKHWYQQWLQPHREWKEEVDA VRTVEEFLRQEHFQGKRGLDQDVRVLK VVKVGSFGNGTVLRSTREVELVAFLSF HSFQEAACHHKDVLRLIWKTMWQSQD LLDLGLEDLRMEQRPDALVFTIQTRGT AEPITVTIVPAYRALGPSLPSQPPPEVY VSLIKACGGPGNFCPSFSELQRNFVKHRP TKLKSLRLVKHWYQQYVKARSPRANL PLYALELLTIYAWEMGTEEDENFMLDE GFTTVMDDLLEYEVICIYWKYYTLHNA IIEDCVRKQLKKERPIILDPADPTLNVAEG YRWDIVAQRASQCLKQDCCYDNRENPI SWNVKRARDIHLTVEQRGYPDFNLIVN PYEPIRKVKEKIRRTRGYSGLQRLSFQVP GSEQRQLSSR\CSLAKYGIFSHTHIYLET IPSEIQVFVKNPDGGSYAYANPNPSFIL GLKQQIED\HQQGLPKK\QQQLEF\QQQVL QGLVGWVGFGYGIQD\SDTL\LSKKKGE ALFPAS
2490	10541	A	3407	108	442	ALLSWEMSAACWEEPWGLPGGFAKRVL VTGGAGF\IR*WRR*PSSGSPETPTFSRSS ACPSASHMIVSLVEDYPNYMIINLDKLD YCASKNLETISNKQNYKFIQGDICDS
2491	10542	A	3408	115	1196	ALLSWEMSAACWEEPWGLPGGFAKRV LVTGGAGF\ISASHMIVSLVEDYPNYMI NLDKLDYCASKNLETISNKQNYKFIQ DICDSHFVKL\LFETEKIDIVLHFAAQTHV DLSFRTCPWSFTHVNV\YMGTHVLVSAA HEARVEKFIYVSTDEVYGGSLDKFDES SPKQPTNPYASSKAAAE\CFVQSYWEQY KFPVVITRSSNVYGPHQYPEKVIPKFISLL QHNKCCIHGSGLQTRNPLYATDVVEAF LTVLKKGKPGEIYNIGTNFEMSVVQLAK ELIQLIKETNSESEMENWVDYVNDRPTN DMRYPMKSEKIHGLRWRPKVPWKEGIK KTIEWYRENFHNWKNVEKALEPFPV
2492	10543	A	3409	359	532	IVMCHCLELVIGEPCHICGSVCVCVYA AVCVLCVCVHTCICFGACV/CVCVCRV CPVCLCTYL\LLWGLCVVCYQVRNFWK
2493	10544	A	341	587	1097	QKINKVVPITGRQCCFVRLSPLESKFQS KEEIRNTSHRANVTKRNSANRKTDAILA TPGPPPAQPHGA/PGGYAPRLPQHPAPGC FPKCGNPAPRPWYGPFSGPLLKEQKRN PRKGTG*MQGVSPVPFPPT*NAGPLPGGS LGPPISGHHFLVSHTWPPPPRSPTAPP
2494	10545	A	3410	27	1389	GQPRSQQGAGSWGKRRQESYRAREGDG GSGSLTGLLRTAAGWLLPARASPRERAT RHPVRSPPQRRARRSLQRGPERPRRDPPQ TAWAARMCTKMEQPFYHDDSYTATGY GRAPGGLSLHDYKLLKPSLAVNLADPYR SLKAPGARGPGPEGGGGGSYFSCQGS TGPSLKLASSELE\RLIVPNSKTANTTTPT PP\GQYFYPRGGSGGGAGGAWGGVTE EQEGFADGFVKALDDLHKMNHVTPPNV SLGATGGPPHGP/GIRSASPEPPPVYTN LSSYSPASASSGGAGA\AVGTGSSYPTTTI SYLPHAPPFAGGHPAQLGLGRGASTFKE EPQTVPEARSR\DATPPVSPINMERPRAPS KLEPSGLRNRLAGHQSAGKRK\KLRKFAR LEDKV\KTLK\ENAGPVEVPPGLPPGSR LAQAQTRKVIDPRVSNGLSSLLFGV\RGH AFLNVPCPL

2495	10546	A	3411	1	3589	IRRPLDQRGGIPLRKKPLEDLVCKLADISI NYVNERKSEQHLRFLSTLLDSFSSSRVFK MLLGDEKQSIVQAKPLEIAKLVQKNPAV QFLYQKLGWLNEDQVRKDFGLVDILYS ALRCCDNDMERKKVLDLTKVDLKW SLLKIEKACPSSDKHALVTPWLKGDILG EKLVLNADCLCNEDLESRVSSSESHFSE WTLLSLVLSQHVKN DYLG DVYVERIIV RLHETL FKTKK LSEAESSDSSVSFICDV
2496	10547	A	3412	112	828	PVFKTLP SHRRHAAAALD L LGASSSDP HADSGTGNWAEVDPGSAQHLRPPSSQLP HFLLSGGGPGQCRRGQRGELLPSGGTA TPCAPRGLGWGLRSCALRAAAAPPTAPQ TLRRAPRPARPRAGPGLAQPSSSRDFL GQAACASGTMLRWLRDFVLPTAACQDA EQPTRYETL FQALDRNGDGVVDIGELQE GLRNLGIPLGQDAEEVGRRRGAA* A*GG LRALGTLRGPRRAA
2497	10548	A	3413	1	1413	RDARRYSGTTPHPSISRDL LGQAVCASG TMLRWLRDFVLPTAACQDAEQPTRYET LFQALDRNGDGVVDIGELQEGLKNLGIP LGQDAEEKIFTTGDVNKDGKLD FEEFMK HLKDHEKKMKLAFKSLDKNNDGKIEAS EIVQPLQTLGLTISEQQAEILQSIDVDGT MTVDWNEW RDYFLNPVTDIEEIRFWK HSTGIDIGDSLTPDEFTEDEKSKGQWWR QLLAGGIAGAVSRTSTAPLDR LKIMMQV HGSKSDKMNI FGFRQMVKEGGIRSLW RGNGTNVIKIA PETAVKFWAYEQVMKT RLAVGKTGQYSGIYDCAKKILKHEGLGA FYKGYVPNLLGIIPYAGIDLAVYELLKSY WLDNFAKDSVNP GVMVLLGCGALSSTC GQLASYPLALVRTRMQAQA MLEGSPQL NMVGLFRRIISKEGIPGLYRGITPNFMKG LPAVGISYVVYENMKQTLGVTQK
2498	10549	A	3414	1	222	
2499	10550	A	3415	2	528	SRVDPRVRHSARLT MCHSRISCHPTMTIL QAPTAPSTIPGPRRGSGPEIFTDPLPEP AADPAGRPSASRGHRKRSRRVLYPRVV RRQLPVEEPNPAKRLLFLLLTIVFCQIL MAEEGVPA LPPEDAPNAASLAPTPVS PVLEPFNL TSEPLADYASWNLSTFLQQHP AAF
2500	10551	A	3416	1623	2346	TFPSGAKPPLAASHIHRHLRDASRLWRG RSGGPSVTRRPTFLPSYPPAPAHAPASAP GPSDSDCSPFSRRRSPTRTDCFVCRPVC PFPFTVPPGRAPSRMAEVL L L L L L L L LPSA AAKIQGYPSCPGPQLSRDILSSGDGWWA GLSGHHRVCGGPGVQEPQT TVVHNATD GIKYIHRHLIHLTPADYDDFVNARSARS AFCLTPMGMMQFNDILQNLKRSKQTKE LWQRV SLEMATFSP
2501	10552	A	3417	256	657	KGLSLSKKAGENHYFYLP HSFPKEAPPG AIGHLSRGTI EEA L D LFSARIVAEFIVLP ASHHPRHLRDASRLWRGRSGGPSVTRRP TFLPSYPPAPAHAPASAPGPSDSDCSPPF SRRRSPTRLARMRGLLGF
2502	10553	A	3418	294	573	SHLLGLHEPSRHN RASPGSLFCTHRRGIH SASSKPSSPTSP*CKSPRPSPGAAPRRG*L E*AGLLGFSTGFRGFPNRARRPRRLGVAI AHQAP
2503	10554	A	3419	1	931	

2504	10555	A	342	462	1238	SFYETKKLLISGSETLDSKDQYRINKYNH YFQTLHYTHLKFSSGLSSATQ*KLSWSK GNG*GERPVSPPLMAPSGQLLAHVWS EVKSVSSCFLSCQQGHVLTSPGSSFPQCQ PAQCYLIPCSEKYNW/PGPPIPSLGIQ SS/SSPGS*SGPISSSKYSGDAQVCFSSPNL FPSFRPVTGCIQSPPNISPGAEGCGLQPI PVHSFLTPSTFSPVSP*RSRSTHPETHS MSHSSQSSPOAPSALPPSISLPLSP
2505	10556	A	3420	640	757	
2506	10557	A	3421	865	1314	TPLPSTTPPKQPNPRGPSGAESLETEEEEE EEKGSEPPPPGRRSR/SLRPPAIRWRRGD P/GQ/QETGPP/KLRP/WDGAEA/GVA/GH AAAFPH/ITEGRLVPLGG/GVRLTPSP/TL LRTGAGLLHYERLWNLVGP/CLHP/RQ DHTLGLGSWG
2507	10558	A	3422	2	310	ARDVHPLPLPFLGNSSLALGMQMRPQL LLSRCRCLPATCASSCKCKECKCTS/TAR KKSCCSLNPCLVPKCAPRACICKRGHR RSASLLRLMTGTALLPTYK
2508	10559	A	3423	41	317	LLLKFFETGSHSFIQVGVQWCDHDSLD LPGSGDPSS/AS/RVAGTAGMDHTWLIF VFLVRRWSLTVLLRLVFNWAKVILHL GLPKGWGLQV
2509	10560	A	3429	781	949	LLCLGLAYRRHFEMSLWLGMAHVHVCNP SAWGGRRGGQITR/GQEFETSLVNMVKT CLY
2510	10561	A	343	2	384	
2511	10562	A	3430	3	1029	RAFRFDDTMAGGGCRAGPGATCSDGDA GSDQRQNEEIEAMAAIYGEEWCVIDDCA KIFCIRISDDIDPTWTLCLHVMLPNEY CTAPPIYQLNAPWLKGQERADLSNSLEEI YIQNIAESILYLWVEKIRDVLIQKSQMT PGPDVKKKTEEDVECEDDLILACQPES LKALDFEVSEARTEVEVEELPPIDHGIPIT DRRSTFAHLAPVVCVKQVKGMSKLY ENKKIASATHNIYAYRIYCEDKQTFLOD CEDDGETVAGGRLHLMEILSVKDVGMG VRARWYVGMGLGPDPRFKHINNCVRNIL VEKNYTSSLEESSKALGKNKKVRKDKK RNEH
2512	10563	C	3431	153	224	MVAHACNPSTLGDRGGRFTRSGD*
2513	10564	C	3432	20	58	MTQLTKRKETIL*
2514	10565	A	3433	837	1125	LDVTTSKNQFVLRTWLKIPGNCYRRHFF FFETESCSVAQAGVQWHNLSSLQAPPPG SRHSPTSAS/QAAGTYRYPAAHAWPNFV FVFLVETGFHPC
2515	10566	A	3438	56	290	
2516	10567	A	3439	468	993	VLLACFWPGSDFWPRSRRKTYGTAPQSC YSFYVALDCGVSRLVIFVSWRNPQVAP TSAHQNRSPRNPVSRPPNTQVRARKHY ALADGYTERRWTNAPCRAESSFPNCP AAPIDSYDK*PSRATLFTSHLTVEAFPV WSYLYPGETPRLHPRAHTRTPAAIRYP DRQTPNGLRGANTMHSQMDTLNGDGR THLAGQRARSPTARPQRQYRIHTSDL PGLVRKYASGCCRLRIWYCCAWIERALS QVGGGVFGDPLSEGQAECDHGST
2517	10568	A	344	2	624	SDSRASCKMLLILLSVALLALSSAQNLE DVSQEEPSLIAGNPQGPSPQGGNKPQGP PPPGKPGPPPGQGGNKPQGPQGGKPGQ PPPGDKSRSPRPPGKPGQPPPGQGG*LQ GPPRGGIKPGPPPGKPGQPPAQGGSK SQSARAPGKPGQPPQEGNNPQGP AGGNPQQPQAPPAGQPGPPRPPQGGRP SRPPQ
2518	10569	A	3440	1	3114	

2519	10570	A	3441	3	401	TSSLSLSGKSGRYIVFLRRSVGIQSPSAVA TVRLLLAGSDRRFAAGSAGCAVLSRAER S*EPGCCYRIRSAFRLRAGSIGNRDKPV AWPDTGSGDNTEVYFRAHQAGILPDTVL AGPAQRVAVSGGTPVDW
2520	10571	A	3442	2874	3062	
2521	10572	A	3443	2766	3323	MPDLVEGREKSDKGAQPQRTQSRSA RTNGSGVRLHSLWRIIGIPLLLGYSLVCSRV LLACFWPGSDFWPRSRRKTYGTAPQSCY SFYVALDCGGVSRLVIFVSWRNPQVAPT SAHQNRPSRNPVSRPPNTQRRVARRKH YALADGYTERRWTDAPCRAESSFPNCP L*RQYRIHIVDASVCGP
2522	10573	A	3444	968	1440	
2523	10574	A	3445	3	640	LSVVRRIHMGVGVGVGCPVRYRNQDD HELQITHGNKILCGIVCDKGAQPQRTQS RSARTNGSGVRLHSLWRIIGIPLLLGYSL VCSRVLLACFWPGSDFWPRSRRKTYGT VPQSCYSFYVALDCGGVSRLVIFVSWRN PQVAPSAHQNRPRRNPVSRPPNTQRRV ARRKHYPADGYTERRWTIAPCRAESSFP NCPSPAAPIDSYDK
2524	10575	A	3446	1	3140	MVYKMYRSQHPYSIKEKQMKSEVLSV KEKIGYMGDAASHIIFDNVMLYMMFF YTDIFGIPAGFVGTMLFVARALDAISDPC MGLLADRTRSRWGKFRPWVLFALPFG IVCVLAYSTPDLSMNGKMIYAAITYTLLT LLYTVVNIPYCALGGVITNDPTQRISLQS WRFVLATAGGMLSTVLMPLVNLIGGD NKPLGFQGDLSPMFSTPEEIARPGPYEND VHVVGASSLAAGHKTLIPELVRSAEQHM GTR
2525	10576	A	3447	750	1340	ILHAPAPPFSASASHEQPEWSDKGAQP PRTQSRSAARTNGSGVRLHSLWRIIGIPL LLGYSLVCSRVLLACFWPGSDFWPRSRR KTYGTAPQSCYSFYVALDCGGVSRLVIF VSWRNPQVAPSAHQNRPSRNPVSRPPNT QRRVARRKHYPADGYTERRWTNAPCRAE SSFPNCPFAAPIDSYDK*PFRIVS
2526	10577	A	3448	93	699	RASVQKKLSTDDKGAQPQRTQSRSA RTNGSGVRLHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRKTYGTAPQS CYSFYVALDCGGVSRLVIFVSWRNPQV APSAHQNRPSRKPGRPPNTQRRVARR KHYPADGYTERISATNAPCRAESSFPPE LPVPQVPNTGFIRQVTFRDCFVNTPQAA ASGFW
2527	10578	A	3449	1000	1530	QRYSDNPPNDKGAQPQRTQSRSA RTNGSGVRLHSLWRIIGIPLLLGYSLVCS RVLLACFWPGSDFWPRSRRKTYGTAPQS CYSFYVALDCGGVSRLVIFVSWRNPQV APSAHQNRPSRNPVSRPPNTQRRVARR KHYPADGYTERRWTNAPCRA/VEFPNCP WEAQYRIIRK
2528	10579	A	345	85	194	
2529	10580	A	3450	106	375	
2530	10581	A	3451	232	376	KKGVLSCVRRHSMET*NEKPALLKMSGI KIPSPVHHFVHFHKQSEKAV
2531	10582	A	3452	481	781	IKDKKVSNOQLLCGYLVAMTDVETTYA DFIASGRTGRRNAIHDLVSSASGNSNEL ALKLAGLDINKTGEEDAQRSSTEQSG EAQGEAAKSESLTPHF
2532	10583	A	3453	15	369	RVGEYDGYEAGPAPCPPRASLCQ/PGPD QGPPSCTQAIPAPRKPHPCWPQGPKKL GELPGLCLQGSPTAGHPCCPPQETGAQG GAPASPWFQNNAAACGLICFPQPRIFL CINSNS

2533	10584	A	3454	201	711	KKMARTKQTARKSTGGKAPROTAG/LA TKAARKSAPSTGGVKKPHRYRPGVTVAL REIRRYQKSTELLARKLPFQRLVREIAA GFSKTALRFQ SARIRCACRR LAKRYLVG LFED\NNLC\AIHAKRVTIHAPKTIQLARR DTGEKRALSEGSFYGVLLVKFLLKYFGLI C
2534	10585	A	3455	758	1188	GKLSGRGTGSLLRGDALPRLQKTGCPKA GGNRPPAVSQSRGGAVRDEGLLAAQTA EGGPRVEEARPPQLPQARGSLPETPPPPA PDAVTPPPSGSHISPSAEGPSRPPPVGAV DSGGAPQPQDPGPAPAPALLRHRHQTP RP
2535	10586	A	3456	2	297	
2536	10587	A	3457	1	1128	
2537	10588	B	3458	58	1282	MRTLLKNTVIVLLPYKSGKLYGESSTE LNVEVLNCTASQFKCASGDKCIGVTNRC DGVFDCSDNSDEAGCPTRPFGMCHSDEF QQCEDGICIPNFWEC DGHPDCLYGSDEH NACVPKTCPSYFHC DN GN CIHRAWLC DRDND CGDMSDEKDCPTQPFRCPSWQW QCLGHNICVNLSVCDGIFDCPNQGMSP HFALVAAAVDWLSQDSKWLQDSHIVPD VKLCVVASAYRQSYQSLGNDISLGYRCQ PKFSRSIDPTGKAVQTADIRLSARATLWL GGSIEESPVLCSTLRLLLRLPPPLTWTSP NRPTQPCTAQTQTNQSVGIAAPSAIRVIY PESVVLNAVIYLPGDPEVSGLPRAFRRF SVEVRLDCGTFKLLLVYCTHPGDIKVNT CKTGALVAFRCFLPX*
2538	10589	A	3459	1	1870	MGKVPMRSEKPAHEVRASTISTPDLSSI ESFFSRGPESTNHTSIKGRPLTAELKNKT NRAEEKIKKEELAISGVDEDDGGKGKID TGD LVEMVDLAFRCDRHND CGDYS DER GCLYQTCQQNQFTCQNGRCISKTFVCDE DND CGD GSDELMHLCHTPEPTCPHEFK CDNGRCIEMMKLCNHLDDCLDNSDEKG CGEFIFRASSPGAILILIVAVSTIHAIIDPR LGNALPVRRIVQPQYSWTP TLKLWASR VSNCQGLLSAAKTHHTVQFSILMALPKG HLFSARLTGKCVAQVIVEGFFAGRDKFV CVLNVA FVPYQFVLSLVRTGTASKSTVG FYRNNISVITGFLIGFLCQSSALDLETFTV VSHFYFGINECHDPSISGCDHNCTDLTS FYCSCRPGYKLM SDKRTCV DIDECTEMP FVCSQKCENVIGSYICKCAPGYLREPDG KTCRQNSNIEPYLIFSNRYLRNL TIDGY FYSLILEGLDNVVALDFDRVEKRLYWID TQRQVIERMFLNKTNKETIINHRLPAAES LAVDWVSSALKGGFVHP\NNGSQHFTL LVD*VIKWL YLISNSVPC*KRRWGLPVF WFGGKREMSWEMMGH*LVEGLCGCCH
2539	10590	A	346	617	711	
2540	10591	B	3460	1	2973	MEKQSINOQLPYPDQLPTQCSPLTGLNE YPLSGVSIPDES WDRKSKHSAAMTLRQV HQRHQNNLFDHNTNVEEYSAQMRIGT HCCCTSSSELLLLVASQNKIADSVTSQV HNIYSLVENGSIYAVDFDSISGRIFWSD ATQGKTWSAFQNGTDRRVVFDSSILTET IAIDWVGRNLYWTDYALETIEVSKIDGS HRTVLISKNL TNPRGLALDPRMKLLYFM DSYLDYMDFCDYNGHHRRQVIASDLGF EV

2541	10592	A	3461	257	3561	RHKKPFKKSMPGAG/MLYWSOQGTDS GVPKIASANMDGTSVKTLFTGNLEHLE CVTLDIEEQKLYWAVTGRGVIERGNVD GTDRMILVHQLSHPWGIAVHDSFLYYTD EQYEVIERVDKATGANKIVLRDNVFNLR GLQVYHRRITEP/CPN*PKTKIGHYIKDK PTCSSE/AKWYLPHPGQM*IA/DKPEAQR GSRRLTDLEGGNNEIDWSISDCIYPSSQ VFDSAIEGKVDKRTCCPSSFPKGYGPI
2542	10593	A	3462	1	10725	MAGAPPASLPCCSLISDCCASNQRDSVG VGPSEPGVGYSLVRRFLSRSEKRNIRV GVTRFSRELPDLRFPEHLFFTDWRLGAI IRVRKADGGEMTVIRSGIAYILHLKSYDV NIQTGSNACNQTHPNGDCSHFCFPVPN FQVCGCPYGMRLASNHLTCEGDPPTNEP PTEQCGLFSFPCNGRCVPNYLLCDGVD DCHDNSDEQLCGTLNNTCSSAFTCGHG ECIPAHWRCDKRNDGVDGSEHNCPNP T
2543	10594	A	3463	3	14105	SWRRCRPKGAFASGAAGAVCYARPPP GEGTARPGTIAEMDRGPAVACTLLAL VACLAPASGQECDSAHFRGSGHCIPAD WRCDGTDKCSDDADEIGCAVVTCCQGY FKCQSEGCIPSSWVCDQDQDCDDGSDE RQDCSQSTCSSHQITCSNGQCIPSEYRCD HVRDCPDGADENDCQYPTCEQLTCDNG ACYNTSQKCDWKVDCRDSSDEINTEIC LHNEFSCGNCEIPRAYVCDHDNDQCQD GSDEHA
2544	10595	A	3469	2	230	WQDFYCQ*HIFGAFFTHPDGPSNWAFS NFVMFCHCLPKCWDYRGESPRPAHFKIF VDQCTVVKKKKIRKIKNKFL
2545	10596	A	347	2	343	SSVRAVEFPEDASGGSSPSGTSKSDANR ASSGGGGGGLMEEMNKLLAKRRKAAS QSDKPAEKKEDESQMEDPSTSPSGTRA ATSHLTPQRLAGSPGSGATRWRSLCPRF CPG
2546	10597	A	3470	134	929	RTAARGCNGIPGAAWEAALPRRRPRR HPSVNPRSRAAGSPRTRGRRTTEERPSGR LGDRGRGRALPGGRLGGRGRGRAPERV GGRGRGRGTAAPRAAPAARGSRPGPAG TMAAGSITTLPALPEDGGSGAFPPGHFK DPKRLYCKNGGFFLRHPDGRVDGVREK SDPHIKLQLQAEERGVSIVKGVVC/SNRY LAMKVEDGRLLASKCVTDECFFERLESN NYNTYRSRKYTSWYVALKRTGQYKLG KTGPGQKAILFLPMMSG
2547	10598	A	3471	1	2604	
2548	10599	A	3472	478	697	YLIYQSRFFLFSSIRYCMMPMPMG/YCNP YAYGQYNMPPYPVYHQSPGQAPYPGTQ QPSYFPFQPPQSYYPQQ
2549	10600	A	3473	21	194	
2550	10601	A	3474	2	767	APLSPGAQLGRGAPTSAPPPAAEAHPA ARRGLRSPQLPSGAMSQNGAPGMQEEES LQGSWVELHFSNNGNGGSPASVSIYNG DMEKILLDAQHESGRSSSKSSHCDSPPS SQTPQDTRAFETDTHSIGREKQLTVLR EDDIERRKEVESILRKNSDWIWDWSSA GKIFPPKEFLFKTPGSRATLSMRNTSVL KKGGFSAEFLKVFLPFSAAALSIAWPIGL GIYIGKASDQPSTSTFGWKEPGSLDLVR

2551	10602	A	3475	1	4220	MLNIVQDSALLEAIGCQMEMGGGENNL KSHSRNSGISSASGGSTEPTTPDSEPA QALLRDYALNTDSAAGLLIRSIHLVTQRL NSQWRQDMSISLAALLELLSGLAKVKVM VDSGDRKRAISSVCTYIVYQCSRPAPLHS RDLHSMIVAAFQCLCVWLTEHPDMLDE KDCLKEVLEIVELGISGSKSKNNEQEVK YKGDKEPNPASM RVKDAAEATLTCLVN ETTLIKYSRLPTINKHSFRYFVLDNSVILA ML
2552	10603	A	3476	3	1676	HASDSFRYFVLDNSVILAMLEQPLGNEQ NDFFPSVTVLVRGMSGRLAWAQQCLLL PRGAKANQKLFVPEPRVPKNDVGFKYS VKHRPFPEEVDKIPFVKADLSIPDLHEIVT EELEERHRK\LR\SGMAQQIAYEIHLEQQS EEELQKRSPDPVTDCKPPPPAQEFQTAR LFLSHFGFLSLEALKEPANSRLPPLIALD STIPGFFDDIGYLDLLPCRPFDTVFIFYMK PGQKTINQEILKNVSSRTVQPHFLEFLLS LGWSVDVGRHPGWTGHVSTWSINCCD DGEQSQQEEVISEDIGASIFNGQKKVLY YADALTEIAFVVPSPVESLTDLESNISD QSDSNMDLMPGILKQPSLTLELFPNHT DNLNSSQRLSPSSRMKRLPQGRVPPLGP ETR\VS\VVVERYDDIENFPLSELMTEIS TGVETTANSSTSLRSTTLEKEVLVIFIHPL NTGLFRIKIQGATGKFNMVPLVDGMIVS RRALGFLVRQTVINICRRKRLESDSYSPP HVRKQKITDIVNKYRNKQLEPEFYTSL FQEVGLKNCSS
2553	10604	A	3477	288	589	WCSRRRGWYLLLGPHNYWRSSTFLVRC TPSCPGGCCPRYGIYPVRSCPLPGGVSR YGSIHSG/RWCSWSPSWPWLTSVTPRL YVALM*AVVCPVVGKQP
2554	10605	A	3478	1250	1909	GAGPDMVWDTELELALKISKGLQRPKA HREEREDIGKHESRCVIYFGTAKKWILK DKNGRSRVDVISHRLKVSSGLCKTHEIG FDPLALKCPLRSRTAPWWPLDRVSFDLH HLVIGNFFVGNRKIFLDYLVYGFAHNRR WKLLVQSWSDGCVHRTFGLVKSFSKAS FCIFITKQRKSSDLALK\QICANTARVIL KLKHFHFVSVMCTFLTCENGHL
2555	10606	A	3479	3	246	AAAMSALSLILGLLTAVPPASCQ/GEP AHMILTVGNKADGVLVGTDGRYSSMAA SFRSSEHENAYENVPEEGKVRSTPM

2556	10607	A	348	2	2355	WCDLGS LQPPPRFKQF SCLSLPRHS*TS Q*PQPPKTQLNFTVAIDFTASNGETRMSE KVGGNPLQPTSLHYMSPYQLSAYAMAL KAVGEHQQDYSDKLFPA YGFGAKLPPE GRISHQFPLNNDEDPNCAGIEGVLESYF QSLRTVQLYGPTYFAPVINQVASNSWSS VTLGTDSEPAVEVPQYVGIRLLVEGFTIK KPMAMCHRRMGVRPAVPLLTQRGSGEG KDSGTPTHSLHTKAQLPSPHVLRHQGV LRRQHSLKLVGTKALSTTGKALRTLPTAK VFISLPNLDKFKVAPSILKPRKSIREDRNG RSQKTVHTEGDMNMNIKKIVKQATVLT FTTALLAGGATQAFAKENNQKAYKET GVSHITRHDMLQIPKQQQNEKYQVPOFD QSTIKNIESAKGLDVWDSWPLQNADGTV AEYNGYHVVFALAGSPKDADDTSIYMF YQKVGDN SIDSWKNA GRVFKDS DKFDA NDPILKDQTQEWSGSATFTSDGKIRLFYT DYSKGHYGKQSLTTAQVNVSKSDDTLKI NGVEDHKTIFDGDGKTYQNVQQFIDEGN YTSGDNHTLRDPHYVEDKGHKYLVFEA NTGTENGYQGEESLFNKAYYGGGTNFF RKESQKLQQS AKKRDAELANGALGIEL NNDYTLKKVMKPLITSNTVTDEIERANV FKMNGKWYLF TDSRGSKMTIDGINSNDI YMLGYVSNSLTGPYKPLNKTGLVLQMG LDPNDVTFTYSHFAVPQAKGNNVVITSY MTNRGFFEDKKATFAPSFLMNIKGKNTS VVKNSILEPGQLAVN
2557	10608	A	3480	162	530	ELLQPM SALSLLILGLLTAVPPASCQQGL GNLQPWMQGLIAAAFLVLVAIAFAVN HFWGAKEEP/ESPAHMILTGVNKA DGV LVGTADGRYSSMAASFRSSEHENAYEN VPEEEGKVRSTPM
2558	10609	A	3481	4	409	NAATSLTANPDATTVNIEDPGETPKHQ GSPRGSGREEDDELLGNDDSDKT/EGTV SGNDSSEVNDTWPLPWGKQANRPLLS LLAGQKKSSPFWTFEYYQTFFDVTYQV FDRIKGSLLPIPGKNFVRLYIRSI
2559	10610	A	3482	160	518	
2560	10611	A	3483	12	197	
2561	10612	A	3484	2	321	ARGVYGYSLFIYIPTAILWIIPHKAVRWI LVQIALGISGSLAMTFWPAVREDNRRV ALATIVTIVLLHMLLSVGCLACFFDAPE MDHLPTTTGTPNQTVAAAKSS
2562	10613	A	3485	187	1280	PLARLNCLCSSLSPSPLSNLSLFLIGTSL GCTCSLKHSHKPCQIFFLIHGRRLTGRMA AVDDLQFEFEGNAATSLTANPDATTVNI EDPGETPKHQPGSPRGSGREEDDELLGN DDSDKTELLAGQKKSSPFWTFEYYQTFF DVDYQVFDRIKGSLLPIPGKNFVRLYIR SNPDLYGPFWICATLVFAIAISGNLSNFI HLGEKTYHYVPEFRKVSIAATIIYAYAW LVPLALWGFLMWRNSKVMNIVSYSFLEI VCVYGYSLFIYIPTAILWIIPKAVRWILV MIALGISGSLAMTFWPAVREDNRRVAL ALVVTIVLLHMLLSVGCLAYFFDAPEMD HLPTTTATPNQTVAAAKSS
2563	10614	A	3486	112	563	LDSSHCCSCSTALFRQTAAAVPRMVI RVYIASSISGSTAIRGKRQQDVLGFLEAN KIGFGRKDIAANGENRKWMRENV PENS RPGTG\YPLPPQIFNESQYRGDYDAFFG RPEENN\AVYCLLRGLTAPPGVSKGRQE GAKPKAGQALTL
2564	10615	A	3487	105	335	GRLFPKVL SYHSVGYLPLILFCHFLLANC ILCCLMHFL*FFQSYRF*G*KFGFTQHHC HYIFHKQWPLLWKNFPEH

2565	10616	A	3488	993	1338	QNCLKPHFFFFFETRVSLLLPKREAMGTI STHCNLCCLPGFQGNPASASQGR/AGLH GMGPPCR/RGTFVFLIGDRGFLHVGSSWS WNSQPQVIR/PRPSPKCWGLQGMEATV PSP
2566	10617	A	3489	2	454	PLLPALPGCHALAPSSYIPVAIRALEPPS PYHGQLKMQSIPG/PPQPRSFFLSSPLDVD SPQAPRHCTGLPAPSLSSPPWSCPTLFSW FFEASGVCHHWTSVIAASNSSPIFELPHP HPLRISAWLFPPWRDHSQDPLCRGATSP VLNS
2567	10618	A	349	1129	1821	AWGSGKQQRROEAQCEVAEFTPAWRR APDTPAPLVLEPARA*HTSPKKHPPMWC RFFFRQSFALVPQIGVQWRNLGSLQPLP PRFKA/FSYPQPPSSWHYRHHVPIFVISA NFCIFNKRWGF/TMLAKL/VLNS*PHEIHP PGPSQSAGIMGVSHCTWLVSFSKVVLV DYFFEKFPN*GNRFEFYFLFETGSHSVN QAGVQR/PYHASLQPPQAQVSLPSSW DYRHVPF
2568	10619	A	3490	1109	1448	PRLLSKCFLLLFFRQSHFVAQAGVQWC DLRSVYHLPGLKRFSCSLSPSSWDYRH LPPCPANFCNFSRDRVSPCCPGWFRTPD PGDPPASAPKWWEYTL*PPGPDHPKAF
2569	10620	A	3491	14	250	VLSVGLPTGDTGIGLSRKTSPAPVALIHS HSLKQAH*LTLSRTGNIHAIYRGLVK YCNFICLGFMLRYQLVSPSF
2570	10621	A	3492	1	1065	
2571	10622	A	3493	90	1937	AGGNQRTQSPRKNFMAFQASHRPAWGK SRKKNWQYEGPTQKLFKRNNSVAPDG PSDPSISASSEQSGAQPPGLQVERIVDK RKNKKGKTEYLVRWKGYDSEDDTWEP EQHLVNCEEYIHDNRRHTEKQKESTLT RTNRTSPNNARKQISRSTNSNFSKTSPKA LVIGKDHEKNSQLFAASQKFRKNTAPS LSSRKNDLAKSGIKILVPKSPVKSRTAV DGFQSESPEKLDPEQGGEDTVAPEVAA EKPVGALLGPGAERARMGSRPRIHPLVP QVPGPVTAAMATGLAVNGKGTSPFMDA LTANGTTNIQTSVTGVTASKRKFIDRR DQPFDKRLRFSVRQTESAYRYRDIVVRK QDGFTHILLSTKSENNNSLNPÆVLREVQS ALSTAAANDSKV/VLPRAVGSVFCCGLN FNYFKPR/LPNARKRESIKMAEAI RNFN TFIQFKPIIVAVNGPAIGLGASILPLCDV VWANEKAWFQTPYTTFG/QSQEGCSPV MFPKIMGGSICILDAVLGDRNLTAQEAC GKGLVSRVFWPGTSPRKVMVRIKELASC NPVVLEESKALVRCNMKMELEQANERE CEVLKKIWG/SAQGDGTRMLKVLCRGKI E
2572	10623	A	3494	2	572	WCLQHD/LGHASIFKKSWWNHVAQKFV MGQ/LKGFSAHWWNFRHFQHHAKPNIF HKDPDVTVPVFLGESSVEYGKKRRR YLPYNQQHLYFFLIGPPLTLVNFEVENL AYMLVCMQWAVSGVAQDPGHTAAVA GGGASGDSTCP*RQTGCTDLLWAASFY ARFFLSYLPFYGVPGVLLFFVAVRYGRE WR
2573	10624	A	3495	25	430	YKNSFPPIALGKCAMLTFPLPLSHQA SQGHRAAEYTCEGRSPFPVGLPWGQ AAMRAGGWVGRTAECFSGME SRPG*R VSGRGAGGQPRPSPGMSLGGPVPPAPSS PLLPAGRCNPRTERTWNLPTRSWA

2574	10625	A	3496	821	1412	GSARASPGQPGKPLVRVDHTDEPHPQGD RPREAPGLGQLSAGSHLQRGALTFHQ VQRAPQLPDRAPPLPQDAETQLQPGCPA CQVAVCQ\ARPQLR\SEALP\HRAGGHR QVPEESLVTSCWTPTTSISEGNTQAGREGL RAPATKPSPRRDRIPTTPTLSLGVPCPLPS WYCCLPLGPLTCVFSSPMALALGLMGQ G
2575	10626	A	3497	32	616	VLQCSHGCFSPSSGG\LTDEAASSCCSD ADPSTKDFLLQQTMLRVKDPKSLDFY TRVLGMTLIQKCDFPIMKFSLYFLAYE DKNDIPK\EKDEK\IAWAVSRKATLELTQ QFGALKDDATQSYHNGNSDPRGFHIGI AVP\DVYSACKRFEELGVKFVKKPDG KMKGL\AFIQDPDGYWIELNPNKMATL M
2576	10627	A	3498	77	403	
2577	10628	A	3499	18	753	TQPQLTSTCYRAFASWRTRSLLEPATILP TTCCPAPAAMCRTLAAPTTCLERAKEF KTLLGIFPHKS\ELGFDTGSTGKFEWGSK HSKGDLKTSQKDVLGWRESFDLLLSSK NGVAAFHAFKTEFSEENLEFWL\ACEE FKKIRSATKLASRAHQIFEEFICSEAPKE VNIDHETRELTRMNLQTATATCFDAAQG KTRTLMEKD/SPYPRFLKSPAYRDL\AAQ ASAASATLSSCSLDEPSHT
2578	10629	A	35	45	819	RLSALSPRLECNGAISAHCKLRPLGSRHS PASASRAAGTTGAHHRARLFFVFLVET GFHRVSQDGL/LPDL/DDPPASASQSAGI TGVTAAPSRACSFKLARGRACPGWDWA EELTGTSHTRRVHPGQALWGWDWRRCS CGSRSWQT*LQRCPAVLRGWLACLAQ EEQIGPYVSVPVPGAACCFIDVLR*KI SDKDVFKAGRGAQPKTFSFLLRKSL/NPV TQARVQWCDLSSLQLLPPRFK*FSCFSLP SRIT
2579	10630	A	350	325	608	LMPCNPRHFERLRQADHLRSGVPRPALV QHGETLSVLKIQKLGGHGSTCL*SQLLRR LRQKNLLSLGGRGCSKLRSHHCTPAWV TEP\DSVSKKK
2580	10631	A	3500	28	342	PGSTHASADAWVHPKNI/SSVNALSPGPH CAQTEV/IVSPAPRCLCHRRGPRPSCCPN PVPSLTSLTRFPSLCRATLKNRKAACLN PASPIVKKIEKMLNSDKSN
2581	10632	A	3501	1	274	MARATLSAAPSNPRLLRVALLLLLVAA SRRAAGASVVTELRCQCLQTLQGIHLKN IQSVNATLKNKGKACLNPAAPMVQKIE KILNNP
2582	10633	A	3502	1	893	MSSREVTTPGKDVARSLRGSKGSDPRRT ALGSRASSQAVISVSLRAAGSRSRSDS GQKENIPQLAGVTQDSQTRTSLVSAPTPL HPRGGAIAFLPNSGSIWSSGNFPGLRA FQPQPCIKGVRRSRRATEPGQAAPCQLS SSHRSNRLLSPMARATLSAAPSNPRLLR VALLLLLVAAASRAAGAPLATELRCQC LQTLQGIHLKNIQSVKVKSPGPHCAQTE VM*VSPAAAAATAGVPDSPAAPNPVLS TSCLTRFPSLCRATLKNQKACLNPAASP MVKKIEKMLKK
2583	10634	A	3503	1	407	ATEPGPQAPPRQLFRSSHSRQTRLLSPMA RAALSAAPSNPRLLRVALLLLLVAAAGR RAAGASVATELRCQCLQTLQGIHPKNIQ SVNVKSPGPHCAQNEVHKHTQEMGGKA CLNPASPIHKIEKMLNSDKSN

2584	10635	A	3507	47	891	KQPFEVWPAGGERLSGARPKKEARLLR WCPMSFKRNRSD\RFYSTRCCG\CCHVR TGTHLGTWYMVVNLLMAILLTVVTHP NSMP\AVNIQYEV\IGNYYS\SERMADNA C/VFFFAVSVLKVYNPVPMLVYGSNFLY PSGVGWIPFF\CYRLDFVLS\CLVAISSLT YLPRIKEYLDQLPDFDPKDDLRLADS\S CLLFIVLVFFALFIIFKAYL\NCVWNCYK YINNRRN/VCPEIAVYP\AFEAPPQ\YVLPTY EMGREKWPEKEHPPLLTWPEGNSGLW TINP
2585	10636	A	3508	246	559	MPVAVMAES/AFSFKKLLDQCENQELEA PGGIATPPVYGQLLALYLLHN/GQRIWQR DFPGIYTTINAHQWSETVQPIMEALRDAT RRRAFALVSQAYTSIIADDDFA
2586	10637	A	3509	2	250	
2587	10638	A	351	3	218	
2588	10639	A	3510	2	119	
2589	10640	A	3511	197	921	GTWVGLAVRTVQRRGPAAKMPVAVMA ESAF\SFKKLLDQCENQELEAP\GGIA\TP KVYGGQLLALYLLHNDMNNARYLWKRI PPAIKSANSELGG\WSVGQRIWQ\RDFFG IYTTIN\AHQWSETVQPIYKHF\RDATR/ RDRAFAPGLLQAVYFQSIRPMIFA\AFVG\ LPV\EEAVKGILAEQGW\Q\ADSTTRNGSC PGKPVCRGPWDVFPFNKFISLYSEP\APV\ PPIPNEQQLARLTDYVAFLEN
2590	10641	A	3512	3	354	
2591	10642	A	3513	1	179	
2592	10643	A	3514	63	386	LRTLISCHLVVLMFLHTGGDDGLLRG WDTRVPGKFLFTSKR*PPKGQHSVPTA PAFPGSPALPFPGWVCVLDTGSEASAC RHTMGVCSIQSSPHREHILATGR
2593	10644	A	3515	1	147	
2594	10645	A	3516	450	1154	KSHVLEPLSSLALEEQCLALS\LDWSTGK TGRAGDQPLKI\SSDSTGQLHLLMVNETR PRLQKVASWQAHQFEAW/TCCFQLPWH PEIVYSGGDDGLLRGWDTRVPGTFLFTS/ IKTHHGCVASIQSKPSSGAHPWPRESYDE THPTVDTRNMKQPLADTPVQGGVWRIK WHPFHHHLLLAACMHSGFKILNCQKAM EERQEATVLTSH\TLPDSL\YGADWSWL LFRSLQRAPLVVLS
2595	10646	A	3517	73	168	
2596	10647	A	3518	322	671	RLWASPAAPGKKKEMGNSMKSTPAPAE RPLNPEGLDSDFLAVLSDYPSPDINPIF RRGEKLRVISDERGWK\AISLSTGRESY IPAICVARSYHGWLLRGP\KNMAEELL QLPD
2597	10648	A	3519	624	1580	KAATSENKII\CEWRTSQAALMLHRLW ASPAAPGKKKEMGNSMKSTPAPAERPLP NPEGLDSDFLAVLSDYPSPDISPPIFRGE KLRVISDEGGWWK\AISLSTGRESYIPGI CVARV\YHGL/WLFEGLGRDKAEELLQL PDTKVGSFM\RESETKKGFYSLSVRHRQ VKTYRIFRLPNWYYISPR\TFQCLAEDL VNHYSEVADGLCCVLTTPCL\TQSTA\AP AVRACSSPVTLRQKTVDWRRVSRLOED PEGTENPLGVVESLFSYGLRESIASYLSL TSEDISSFDRKKKSISLMYGGSKRKSFFS SPPYFED

2598	10649	A	352	319	1979	VPGVPAARPERECRAHPASFPPPGGLDS GFVPSVQDFDKKLTEADAYLQILIEQLKL F**QASKRKEDEQRKKIETLKETTNSMV ESIKHCIVLLQIAKDQSNAEKHADGMIST IKSCRCNIPA*SLGTCDAQCLPRLPYLQ NPLSCVSQSSVHLS*QVGPVLSYLGTSDD SNTQIVPGSGNFTNLAASLTPSQAMSTLS PNTVPEFSYSRQ*/EDEFYDAD/ENSIKVG SSPKRLIDSSGSASVLTHSSSGNSLKR PDT TESLNSSLNNGTSDADLFDSHDDRDDDA EAGSVEEHKSVIMHLLSQVRLGMDLTK VVLPTFILERRSLEMYADFFAHPDLFVS ISDQKDPKDRMVQVVKWYLSAFHAGRK GSVAKKPYNPILGEIFQCHWTL PNDTEE NKELVSEGPVPGVSKNSVTFVAEQVSH HPPIFSLFMLECFNKKIQFNAHIWTKSKF LGMSIGVHNIGQGCVSCLDYDEHYILTFP NGYGRSILTPWVELGGEKNINCSKTGY SANIIFHTKPFYGGKKHRITAEIFSPNDKK SFCSIEGEWNG
2599	10650	A	3520	24	688	VDHPPYKRTEKVRAQRSPKSQDIYLGALL VKLYRFSGPEEPNSNIQTRVVLKRLFMS RTNRPPLSLSRMIREDEAFLAGKKKNP AVVVGPKLIMCGVQKGTPLKLV CALG GTQAGPHKRILRARGQRSITFDQLALD/S PLRGCGTVLLSGPSKGREVRHFGKAP GNPHSHTKPYVRSGRKFERRARGARRA SRGYKKLTLDPTLLYKKIFADSEKKKK
2600	10651	A	3522	195	391	PGVAGARHPLLGAAPKGRLEVLAVGFH GSAANQVWVSKSHPQFIPTDQEIGGDRA LKGTCRLPLS
2601	10652	A	3523	112	492	AHSRTPARPENRAAASAPRKPRRAMSSP PEGKLETKAGHPPAVKAGGMRIQKHP HTGDTKEEKDKDDQEWESPSPKPTVFI SGVIARGDKDFPAAAQVAHQKPHASM DKHPSRPTQHIQPRK
2602	10653	A	3524	3	982	GTRVGVAWRSVRLLLGPGAGLRGGVVL KVSPSPCRGRRVPVRAEGARGRGRPN KVPGASSGAAVGAARLTAPLLAKAMAS KLLRAVILGPPGLGKGAPVCQRIQNFQ LQVHLSVSGHFLRENIKAISTEVGEMANQV YREKVFLVPDHVITRLMMESELENRRGQ HWLLDGFPRTLGQAEALDKICEVDLVIS LNIPFETLKDGLNRRWIHPVPSGARVYNLA DFNPPHVHGIDDVTGEPLVQQEDDKPE AVAAIRLRQYKDVAKPVELYKSRGV HQFSGTETNKMWPYVYTLFSNKITPIQ SKESILTLAQWEEPWNDVGHSFQ
2603	10654	A	3525	19	445	
2604	10655	A	3526	1	622	QAAWILKARALTEMVYIDEIDVDQEGIA EMMLDENAIQVPRPGTSLKLPGTNQTG GPSQAVRP/TSHEKPITGFLRPSTQSGRP GTMEQAIRTPRTAYTARPITSSSGRFVRL GTASMLTSPDGPFIN*SRLNLTKYSQKPK MAKALPEYIFHHENDVKTALELAALSTE HSQYKDWVWKVQIEKRYRRLGMYREA EKQLISAMQ

2605	10656	A	3527	1	1509	MKAIEICKSRTVKDWHNHQKLGEGNKTD SPPQPSEGNTANTLILDFWPLEMIACCW ETFPQRLTAELFMNPTHRWHGYKNQSV GALRAPLGQGPSRRGLPGRVGRRQLFTP RPPLSWSAGPSLAAPAAMSEMEPLLLA WSYFRRRKFQLCADLCTQMLEKSPYDQ EPDPELPVHQA AWILKARALTEMVYIDE IDVDQEGIAEMMLDENAI/PSSTPITQAG RPITGFLRPSTQSGRPGTMEQAIRTPRTA YTARPITSSSGRFVRLGTLGMYREAEKQ FKSALKQQEMVDFTLYLAKVYVSLDQP VTALNLFKQGLDKFPGEVTLGCIARIYE EMNNMSSAAEYYKEVLKQDNTHVEAIA CIGSNHFYSDQPEIALRFYRRLQMGYIN GQLFNNLGLCCFYAQQYDMTLTSFERA LSLAENEEEAADVWYNLGHVAVGIGDT NLAHQCFRLALVNNNNHAEAYNNLAVL GDAEG/RHVEQARALLQTASSISPHMYE PHF
2606	10657	A	353	27	749	STCCFQELVTL*GCKLCTFHPGRKWETR LAEPLQRDPSYRVVMLGELRGIVFLTGI VSPRTENDQEISEDTRSHGVLLGRFQKD ISQGLKFKEAYEREVSLKRPLGNSPGERL NRKMPDFGQVTVERS*PPGEREA/RKYN DFGNSFTVNSNLISHQRLPVG/DTRPHKC DECSKSFNRTSDLIHQRIHTGEKPYECN E/CCKAFSQSSHQRIHQRIHTGEKPYECS DWGKTFSCSSDLILH
2607	10658	A	3531	1	174	
2608	10659	A	3532	1	189	MDAVAVYHGKISRETGEKLLATGLDG SYLLRDSSEVPGVYCLCVL/FQKPDQGIV IPLQYPV
2609	10660	A	3533	3	210	CPRVHQAMD VAVYHGKISRETGEKLL LATGLDGSYLLRDSSEVPGVYCLCVL*V *YVCCEYDTPDCLWYLVMAA
2610	10661	A	3534	1	386	GISLAQFSSSACPRVHQAMD VAVYHG KISRETGEKLLATGLDGSYLLRDSSEVP GVYCLCVLYHGYIYTYRVSQTETGSWS A/EAFQKPDQGIVPLQYPVEKKSSARST QGTGIREDPDVCLKAP
2611	10662	A	3535	224	751	LVPGCSSSGISLAQFSSSACPRVHQAMD AVAVYHGKISRETGEKLLATGLDGSY LLRDSSEVPGVYCLCVLYHGYIYTYRVS QTETGSWSAETAPGVHKRYFRKMKKS HFQHFQKQDQ/GIVPLQYPVEKKSSARS TQGTGIREDP/VCLNAPLIKISPLRPLFS ITFNIC
2612	10663	A	3536	3	199	SIRAEMSRVALAVLALLSLSGLEAIQRT PKIQVYITSSSREWKVKFPELLCVVWSST PTLKLTY
2613	10664	A	3537	134	404	
2614	10665	A	3538	415	533	
2615	10666	A	3539	1	3349	MDQPEAPCSSTGPRLAVARELLLALEE LSQEQLKRFRHKL RDVGPDGRSIPWGRL ERADAVDLAEQLAQFYGPEPALEVARK TLKRADARDVAAQLQERRLQRLGLGSG TLLSVSEYKKKYREHVLQLHARVKERN ARSVKITKRF TKLLIAPESAPEALGPA EEPEPGRARRSDTHTFNRLFRDEEGRRP LTVVLQGPAGIGKTMAAKKILYDWAAG KLYQGQVDFAFFMPCGELLERPGTRSLA DLILD
2616	10667	A	354	69	378	KGGSLGAPRVEGPNFGL/KDSSSPKKRE FPALPPPGGNN/KRAGPPCPGKFGFLKKK GVPP/GGKRG LNPRPQGDSSS*PPKGGGI TGGAPRPGKKRSFSLQKIL
2617	10668	A	3540	3	261	
2618	10669	A	3541	3	429	

2619	10670	A	3542	1	859	ALGKQKCEEWRISKY/EALK/ED/WRNLG AQHRELESQHLVLSKLGADSRDLQM NQALRSQNEHQQLQAKIECLQADRDL SLYTQDLQDQLKRSEAEKLTIVTRVQQL QGLLQNSQLQEQEKLLTK/KRSANLL PQILRYCSFSYLPRGSGMDYMTSWSPSQ FWEFC*VRDVWELFKD*SLALRTLQLVS LLS*DQALPVWSPKSPNEVEPEGTGKE KDWDLRDQLQKKTLQLQAKEKECRELH SELDNLSDEYLSCLRKLQHCREELNQSQ QLPPRRQCGRWLP
2620	10671	A	3543	392	2016	AKRNRCLVIMISPDRPSPLARGAESY EAKCERRQEIRESRRCRPNVTTCRQVVK TLRIQREQLQARLQOQFRRRNLELEE KGKAQHPQAREQGPSRRPGQVTGTSSEV FPAQHPPPSGICRDLSDHLSQAGGLPPQ DTPIKKPPKHHRGTQTKAEGPTIKNDAS QQTNYGVAVLDEKILQLSDYLKEALQRE LVLKQKQMVILQDLSTLIQASDSSWKGQ LNEDKLKGLRSLNQLYTCTQKYSWP GMKKVLLEMEDQKNSYEQKAKESLQK VLEEKMNAEQQLQSTQSRSLALAEQKCE EWRSQYEALKEDWRTLGTQHRELESQ HVLQSKLGADSRDLQMNQALRFLNE HQQLQAKIECLQGRDLCSLDTQDLQD QLKRSEAEKLTIVTRVQQLQGLLQNSL QLQEQEKLLTKKDQALPVWSPKSPNEV EPEGTGKEKDWDLRDQLQKKTLQLQAK EKECRELHSELDNLSDEYLSCLRKLQHC REELNQSQQLPPRRQCGRKGLPVLMMVI APALAVFLANKNNLMI
2621	10672	A	3544	35	219	
2622	10673	A	3545	293	479	
2623	10674	A	3546	1	968	VKLPSCPDPAMGTSLLCWMALCLLGAD HADTGVSQNPRIHNRKGNVTFRCDPI SEHNRLYWYRQTLGQPEFLTYFQNEA QLEKSRLSDRFSARPKGSFSTLEIQRTE QGDSAMYLCASSLAGLNQPHFGDGT LSILEDLNKVFPEVAVFEPSEAEISHTQK ATLVCLATGFFPDHVELSWWWNGKEV HSGVSTDPQLKEQPALNDSRYCLSSRL RVSAITFWQNPRIHNRKGNVTFRCDPI DEWTQDRAKPVTVQIVSAEAWGRADCGF TSVSYQQGVLSATILYEILLGKATLYAV LVSAVLMMAMVKKRDF
2624	10675	A	3547	278	1283	GGIGEIKQRPSCLGRCLDPSLSVLMNISL ELGSVFSAVISQKPSRDICHRGTSITQGG VDSQVTMMFWYRQPGQSLTLIATANQ GSEATYESGFVIDKFPISRPNLTFSTLTVS NMSPEDSSIYLCVVEEQGFVGAETQYF GPGTRLLVLEDLKNVFPPEVA/VLFEPSE AEISHTQKATLVCLAICFYLDHVELSWW VNGKEAHSGVSTDPQLKEQPALNDSRY CLSSRLRVSAITFWQNPRIHNRKGNVTFRCDPI GLSENDEWTQDRAKPVTVQIVSAEAWGR ADCGFTSGKSYQQGVLSATILYEILLGK ATLYAVLVSAVLMMAMVKKRDSRG
2625	10676	A	3548	151	286	
2626	10677	A	3549	28	177	
2627	10678	A	355	213	660	KPVILGYAEPAPGQFSRGP/WSRAE/WP GTASPLL/SCATSALL*SIPKGPDSHRGH QHGTPTPSKPEKGTAGHQLSRYITPQE KEIAPLNPPALKSPSKENRDPRLTGPGQ TSRALTVAPGCALGPQVEPMKALRRQM GGAVFPLGS
2628	10679	A	3550	422	671	RIYPALRMPSINTASIAQARKLVEQLFMF ANIDRIKVSAAAADLMAYCEAHAKEDP LLTPVPASENPFEKVKFFCAHPLSL

2629	10680	B	3551	62	299	MFSLLKWNAMWSWDVECDTCAICR VQVMDEGIGVRNWSEALNLIYASEMGF DLDMGSQTSLSPLAHWLLNNLGWMNL X*
2630	10681	A	3552	1	602	ADVEDGEETCALASHSGSSGSKSGGDK MFSLLKWNAMWSWDVECDTCAICR VQVMDEGIGVRNWSEALNLIYASEMGF DCRSGSTALAVPSVSLASHQPCLDHR* QPIGSIQSSLF*RNSQVS*GRK*KVASYEL LKEGFCVNACLRCQAENKQEDCVVWV GECNHSFHNCCMSLWVKQNNRCPLCQQ DWVVRIGK
2631	10682	A	3553	2	428	SGGSTEPLGLSAFPKPTSSAVGSVGAAM ADVEDGEETCALASHSGSSGSKSGGDK MFSLLKWNAMWSWDVECDTCAICR VQVMDACFRCAENKQEDFFVVLGECN HSFHNCCCHVPCGSKQNNRCPLCQDQW VVVRIGK
2632	10683	A	3555	3	378	
2633	10684	A	3556	2	299	LLNSRPRRRQQAQPSLEMQNDAGEFVD LYVPRKCSASNRIIGAKDHASIQMNVAE VDKVTGRFNGQFKTYAICGAIRRMGES HDSFLRMAKADGIVSK
2634	10685	A	3557	1	392	RRYLCRVTSCLSLSRVWVWPARRSPAF EMQNGRRRSSDLYRARGKLSASNRIIG AKDHASIQMNVAEVDKVTGRFNGQFK TYAICGAIRRMGESDDSLARLAKADGIV FKELFDWREITDVGFCHK
2635	10686	A	3558	1	415	FRDIVNENGEIEQDEEEDGYDDDEMT GTGMKES*NSPWVMAG/HGGSNPQANR QTSOSSAKMSTPADKVLKFKENKINLD KLNVTDSVIYKATEKF/DTKGICYVLDPT TRMILFKMLTRGIITDIDGCISTGREANV
2636	10687	A	3559	139	1914	AVPFHRAAASGGALQSWTTGGLMSR VVPQGQDDADSSDSENRLKTVEKDDI LFEDLQDNVNENGEIEDEE/WKEGYD DDVMTGTGMKELENSPRVMSGIGRKQP TGKSTD/PDSSAKMSTPADKVLKFKEN KINLDKLNVTDSVINKVTEKSQKEADM YRIKDKADRATVEQVLDPRTRMILFKM VTRGIITEINGCISTGKEANGYHASTANG ESRAIKIYKTSILVFKDRDKYVSGEFRFR HGYCRGNPRKMVKTWAEKEMRNLRLN HSR/GYHCPEPIMLRRHGLAMSFIGKDD MPATNFGKMFQLSESKARELYLQVIQY MRRMYQDARLVHADLSEFNIMYHGGG VYIIDVSQSVEHDHPHALEFLRKDCAN VNDFFMRHSVAVMTVRELFVTDPIPL HHENLDAYLSKAMEIASQRTKERTV/SS QDHVDEEVFKRS/YIPRNLDEVKNYERD MDIIMKLKEEDMAMNAQQDNILYQTVT GLKKDLSGVQKVPALLENQVEERTCSDS EDIGSSECSDTDSEEQGDHARPKHTTD PDIDKKERKKAEVKEAQREKRKNKIPKH VKKRKEKTAKTKKGK
2637	10688	A	356	629	1007	KGTYIKQERLENLRTNHLDKYYNPPMK QNYQKLCQKGMASRTHREESR*MRGNR CRLRITRNA*FEGENLQNKIAQGENLEKK PEPATYI*EA*ESKRDKGV*KSYCVSSFT MQ*KSD*SEYSYG
2638	10689	A	3560	129	567	SYKSRLARKS\TGCKAP\RK\QLAYKKPA SQECGPLLGLKKPHRYR\PGTVLREIR R\YQKSTELMIRK\LRQRLVREIAQDFA KTDLRFQERSNQVALQEAARRAYLVWP FLKDTNLVCLSMPCRVPIMPKRHSSAR RHHVENVL
2639	10690	A	3564	194	338	

2640	10691	A	3565	197	522	GSAAMKVKIKCWNGVAHWLVVANDE NCGICRMAFNGCCPGCECSPSMLSERPR LQGAPATDCPAGCGGPVLPFCQHALHP QVGLHAQQVQALAPMLPPRIGKFKE
2641	10692	A	3566	1	6521	MLRKRKWLGVVAHACNPSTLGGQGH DKQPQVRRLLSAPGSRIAGQWVLDLKS PHLLKGENDKNSLSQKAFLYVAHVLD SERGVLVTMTTETGPDSEVKKAEQEEAPQ QPEAAAAVTPVTPAGHGHPEANSNEK HPSQQDTRPAEQSLDMEEKDYSEADGLS ERTTPSKAQKSPQKIAKKYKSAICRVTL DASEYECEVEKHGRGQVLFDLVCEHLN LLEKDYFGLTFCDADSQKNWLDPSKEIK KQIRSE
2642	10693	A	3567	1	1232	GCTGTWGEALFIKEKGFFWSPATGPMA AVQMDPELAKRLFFEGATVVILNMPKG TEFGIDYNSEWVGPKLRGVKMIPPGIHL HYSSVDKANPKEVGPRMGFFLSLHORG LTVLRWSTLREEVDLSPAPESEVEAMRA NLQELDQFLGPYPYATLKKWISLTNFISE ATVKKLQPENRQICAFSDVLPVLSMKHT KDRVGNLPRCGIECKSYQEGLARLPEM KPRAGTEIRFSELPTQMFPEGATPAEITK HSMDSLVALETVHNKQFPSSPDVVGEL QFAFVCFLGNVYEAFAHWRLLNLLC RSEAAMKK/HATRLWINLISILHHQLGEIP ADFFVDIVSQHNFLTSTLQVFFSSACSIA VDATLRKKAQKFAHLTKKFRWDFAE PEDCAPVVEELPEGIEMG
2643	10694	A	3568	2	166	
2644	10695	A	3569	56	1072	ARGGGAMEGLEENGGVVQVQVGLLPCKI CGRTFAPVALKKHGPIQKATTKKRKTF DSSRQRAEGTDIPTVKPLKPRPEPPKPS NWRKHEEFATIRAAGLDQALKEG/G KL/PPPPPSYDPGFIIQW/CPY/CQRKIP MENAADRHNFCKEQAARISNKRRFSTD TKGKPTSRTQVYKPPALKKSNSPGTASS GSSRVPQPSGAGKTVVGVV/SQGVVSSS SSSLG/NTKLQTLSPSHKGIAAPHAGANV KPRNSTPPSFA/RNPAAGVLTNKRKYT ESYIARPDGDCASSLNGGNIGIEGHSPG NFPKF/CECGTKYPVEWAKFCCECGIR RMIL
2645	10696	C	357	1	555	MLYVLIESERARIKKLQEEKTRNLESSRK LEPTIVSEHKGGLRTEQTDIDVLGQHLTK EHVSSHQSPIRDSQWFTLSPQEKYACSY ERKDPKIKRAFIIFYHRNAVVS HGGNGPA VVLPISRFVLTPTTFESTLPFLSSRLAWGT SSKDPRIAAGQQSPLEKKILVSKLSSHHT VWNYTEKES*
2646	10697	A	3571	32	469	
2647	10698	A	3572	659	1149	EVTACRQPSVAFSTSLALALTALLEEPF SLLHHCESPLLWASSCGGCAGSPSSAG PAGIVLK/SLAGPQLPPCRVGLGTCSLPY LSLPPAVGSFMARASLMSAAPCSMARVP STTQGLLSRTPQCGQMAQDWQAAPPAS PVQDPLEEASWAPESSGDLENFYV
2648	10699	C	3573	361	501	MLFLRYAPLVGGSFCIWSHPLQFFLSIK VNFVETLFCFQSFKDIF*
2649	10700	A	3574	124	579	EPLPGLAKAGAGSLSCSVRCAAGASPT SATPCSIAPSPIDHPRAEECGRMVQDWQ AAPAPRCGIHWVKPAGLLSLLMSMVR INMIVKLLVFVILLVT*FTVKVCLYIFQGL CCGLLFCKILHGSPSHHRPKDLWHHCDL DVRHEVKGDH

2650	10701	A	3575	2765	3138	YSLKSGSVMPALFFWLRIALAMQALF WFHMFNFVFSNSLKKVIGSFMGMALN L*ITLGSMAIFTILILPHEHGMFFHLFVSS FISLSSGL*FSLKRSFTSLVSWIPRYFILFE AIVNGSSL
2651	10702	A	3576	265	663	GRASGVVRSRPRWVCDLAGFRGEAADLH GVCYSRLRSPAGFTQWQHQSRSWSCLP VPRRAPALLALGWSMGWAPPQPLAWV LSPSLPGAGSADWLLQVRGPPSPRPPGTP AGPPAPCAALVPRVSPSTLPS
2652	10703	A	3577	82	361	LRSPAGFTQWIRTGAAGGAACQFRAVRP ALLSPWVVDGTGRRGAGGGAYRGGSG RTGAHGTGGSGMAGCRSRAVPRRKAA KTRPCEVQKRQHNVNLYFPVVETKAQT VKWFLA*ASPCSVGSCAARASPIAAP CSTAPSPIDHPRAECWAHGTLAGSSTC SPGADPLGEASWAPE
2653	10704	A	3578	806	934	KILSSKFPFSFLPSYVCTSSFP*THPSIIST SSSSHSVPTN
2654	10705	A	3579	1034	1393	AVTLTGKVCSTPEASETTNPPGGTNNNS RRASLRAATLTVKVRSTPRGSAASFCKS VRPRTHQFRTQYSPRMSKIRDCSRSCFI SFLASWRIICLL*VLISLCAW*RYRLFWP LPSS
2655	10706	A	358	4627	5052	LSTKAPRKDTLNFKWCWENWISICRRLQ LGSYLLPY*KINQKWIKGLNDRSETMKL LKENIGEMLKNIGLGKDFMVKTSKA*AT KQKIGRWDIKLIKICTAKKT/IRVKRPTV DGNINIFKLSNRGLISRVYKEHNSTVKKK KK
2656	10707	A	3580	529	750	REFRVGVASADPAFGAAGRPCPGQG*G A*HTGQWLRRVYWVPQQCQPTGVALDF SPGLSCLPAGQGSIPAARHA
2657	10708	A	3581	2	343	HAVFFISIRSFMMFFKLVLVSNSSKLFSTF LVSLHWVRTCSFSSEEFVITHFLKPTSVN SSNSFSVQFCSLAGEEL*SFGGEEAFWFL EFSALHWWFLIFMDLSTFGLCCC
2658	10709	A	3582	289	422	
2659	10710	A	3583	189	309	
2660	10711	A	3584	587	801	
2661	10712	A	3585	76	1740	SLLTAASSFQPLKQSSHLSPSGWDYR LRMTQNKLLCSKANVYTEVPDGGWG WAVAVSFFFVEVFTYGIKTFGVFFNDL MDSFNESNSRISWISICVFLTFSAPLAT VLSNR/LGHRLLV/VMLGGLLVSTGMVAA SFSQEVSHMYVAIGHSGLGYCFSFLPTVT ILSQYFGTRRSIVTAVASTGECFAVFAF APAIMALKERIGWRYSLLFVGLLQLNIVI FGALLRPIFIRGPASPKIVIQENRKEAQY MLENEKTRTSIDSIDSGVELTTSKPNVPT HTNLELEPKAD/MQQVLVKTSPRPSEKK APLLDFSILKEKSFICYALFGLFATLGFFA PSLYHIPLGISLGIDQDRAAFLSTMAIAE VFGRIGAGFVLNREPIRKIYIELICVILLTV SLFAFTFATEFWGLMSCSIFFGFMVGTIG GLTFHCLLKMMSWALQKMSSAAGVYIF IQSIAGLAGPPLAGLLVDQSKIYSAFYF CAAGMALAAVCLALVRPCKMGLCQRH HSGETKVVSHRGKTLQDIPEDFLEMDLA KNEHRVHVQMEPV

2662	10713	A	3586	1	2472	GFVFLLLAPLSRLEFHKSRGLKNVFEGL EAEECFYKVHLDGGEELWVRPDAETT THQGRVSQEKHQALGCKWPKLCGDALC VILSAPSPIDHPKAECCRARRDWAAPP AAPVRDPLGEASWAPESGQOMKEAAEL GVSCMGPDLEKLTLYEVKLRLQGCKAA QRPLGCTLLAIQGTLYQRIFSPLTQPELV NGKGWHLTQESLSQNGSLEFTSEPHSP NPNEGSSRRQSLHTNANNMAFASEQFPN LPSGSGSRGFPGRARVLHLDQCNCQRLT AGPAQLQGSRAANRRKALVSPSSSVARE DGFAEEMVFTYGIKTFGVFFNDLMDSF NESNSRISWISICVFVLTFSAPLATVLSN RFGHRLVVMGGLLVSTGMVAASFQSE VSHMYVAIGHISAIMALKERIGWRYSLLF VGLQLNIVIFGALLRPIFIRGPASPKIVIQ ENRKEAQYMLENEKTRTSIDSIDSGVELT TSPKNVPTHNTLELEPKADMQQVLVKTS PRPSEKKAPLLDFSILKEKSFICYALFGLF ATLGFFAPSLYIIPGLISLGIDQDRAAFL STMAIAEVFGRIAGFVLNREPIRKIYIEL ICVILLTVSLFAFTFATEFWGLMSCSIFFG FMVGTIGGLTFHCLLRMMSWAL/QKMS SAAGVYIFIQSIAGLAGPPLAGLLVDQSK IYSRAFYSACAAGMALAAVCLALVRPCK MGLCQHHSGETKVVSHRGKTLQDIPE DFLEMDLAKNEHRVHVQMEPVVRRRFA AAGPAGLGAAGDSDAFPAREGPERRAG YSGPAAACDFSTAAPKREQRGPLSLVG LEM
2663	10714	A	3587	323	1303	STLYLPAMDTNQEEIPDLLALGTSAWSS TLAALPEPFSPLPHCGSPFLGWSRPELAP SACREVWREKPEWELGLRTVLAGQCEF RVGVGSGDSTRSSWPPLAPGNEGLSTR ASSCGGCTGSPSRAGPPVLCSSISQALAA FPRGRARGLQAMPEPPRLRGLLCSPEP PRLVPPPAPGHPVPLTTQGLRSTGTHHR DWQAAPPAAPVRDPLGEASWAPESANL VGKWRITVSSSGTANAPISTLSKQTTGL YQSAGCGWGQNLGAKYRA/LCRPVKSD *HGRQTKDGTGVRSLGKGLSNPN*LFRVG TVGSHRPHFPTYMDGLASGV
2664	10715	A	3588	1	3552	
2665	10716	A	3589	375	646	KKSLLSINSRLQLVMKSGKYVLGYKQT LKMIHQGKAKLVILANNCALSGNNIEL GTACGKYRVCTLAHDPGDSDIIR/SMPE QTGEK
2666	10717	A	359	1	366	KKQIFLELISIYSRVAGYKINTQKSVAFLY NSNKQLNL*IK/DTMPFILAC/NK*KHLPL NLTK*VQEIEGNYDTFMK*IED/DKQRN ISSSW*KRFIKMPILPNLIYRYNAFPVKIS ESYLVDI
2667	10718	A	3590	75	335	LRILKFLSCSLSLGWGPPSPSLRQEDGGR KRRRKKSLESINRLQLVMKSGKLLPGG TSQTLKMRQGKAKLVILANN/CGPALR KSEIEYYCYVWLKTGC/HIPLTVGNNE LGATA/CGKITRYVLHTGLFIDPG*LLTSF RKACPEQTC*KMVAAKEDEKSRWSRST LGSNSLWKSGLLPGGTSQTLKMIQTRQ SEMWSFSLTTGPSFEEI
2668	10719	A	3591	1	2580	
2669	10720	A	3592	1	1386	

2670	10721	A	3593	2	1419	RPPGIRAPRQLHPAAGRPPDASARPRFRP TVLLHDPFQLSFPPPLSYSPVFAVARV LPQRS GDYRAAGMPQLSGGGGGGGGDP ELCATDEMIPFKDEGDPQREKIFAEIVNP EEEGDLADIKSSLVNESEIIPASNGHEVA RQAQTSQEPYHDKAREHPDDGKHDPDGG LYNKGPSYSSSYSGYIMPMNMNDPYMS NGSLSPPIRPTSNKVPVVPQSHAVHPLTP LITYSDEHFS PGSHPSHPSDVNSKQGMS RHPPAPDIPTFYPLSPGGVGQITPPLGWQ GQPVYPTGGFRQPYSSLSGDTMSRFS HPMIPGPPGPHTIGIPHPAIVTPQVKQ DHPHHSSDLMHVKPQPEQRKEQEPKRP PTKKVPLNAFMLYMKEMRANVVAECTL KESAAINQILGRRWHALSREEQAKYYEL ARKERQLHMQLYPGWSARDNYGKKKK RKREKLQESASGTGPRMTAAYI
2671	10722	A	3594	59	435	STCPAPQ SARVQWCNLSLQPPPTPTPR SSNSPASASQIAGVTGVRHHTQLIFVFLV GDGGFHCVGSGWVSNCWPSGWRPLWP HLFLGFHKDLEVVGFLVFASISFRSWRW DLKNSSVLTHFFK
2672	10723	A	3595	54	442	
2673	10724	A	3596	360	1023	GQGR LPERGYLAEAGVYRICGRQSRHED GTHRGAQVIEQRRKWLPALGFQPIILQL CGKRVPA PRASTGQPQASRAWSGPL/P HPQCGSDIRLRVRAEYCEHGPALQGV SRRPQALARQLDVFGQATAVLRSDLGS VVC DIKFSELSYLD AFWGDYLSGALLQA LRGVFLTEALREAVGREAVRLVSVDEA DYEAGRRRLLMEEEGRRRPTAS
2674	10725	A	3597	3	370	QMYCVFN RNEDACRY/GS/AIGVLAFLAS AFFLVVDAYFPQISNATDRKYLVI GDLF SGVLASLAYQRYKAGVDDFIQNYVDPT PDPNTAYASYPGASVDNYQPPFTQNAE TTEGYQPPPVY
2675	10726	A	3598	1	1356	
2676	10727	A	3599	3	706	GGGSGGDGDMESGAYGAAGGGSFDL RRFLTQPPVVARAVVLV FALIVFSCIY EGYSNAHESKQMYCVFN RNEDACRYGS AIGVLAFLASAFVLVDAYFPQISNATD RKYLVI GDLFSA LWTFWVFGFCFLT QWAVTKPKTVLVGADSVRAITFSFFSI FSWGVLASLG YQRYKAGVDDFIQNYV DPTDPNTAYASYPGASVDNYQPPFT QNAETTEGYQPPPV
2677	10728	A	36	2	424	
2678	10729	A	360	241	583	NGPPFFFFEFMEFSLLLPRLECNGAISAH RNLRLPGSSDSPASAGLL*SQVAGITRL RHHD*LILY/FLVEMRFHRVG*AGLELLT SGDPPSSASQGAGITGMSHSAGHYGKIF
2679	10730	A	3602	1	171	RILMAINGK VFDVTKGRKFYGPVKYHH VGKLLTAGEEP AVYSDEE EPKDESARK ND
2680	10731	A	3603	3	253	LSLQEFGT SFAGRDASRGLATFCLDKEA LKDEYDDLSDLTAAQQETLSDWESQFTF K/LLKEGE EPTVYSDEE EPKDESARKND
2681	10732	A	3604	3	701	PARHSLAQREEKVASSGSLPSAAQPLLSE IMAAEDVVATGADPSDLES GGLLHEIFT SPLNLLLLGL/CIFLLYKIVRGDQPAASG DSDDDEPPPLRLKRRDFTPAEVLRRFDG VQDPAPYSWAINGK VFDVTKGRKFLT GPEGPYGVFAGRKCIQ GALPTFLDKEA/ LKDEYDDLSDLTAAQQETLSDWESQF TFKYHHVGKLLKEGE EPTVYSDEE EPK ESARKND

2682	10733	A	3605	3	678	KRLPKMAEVQVLVLADGRAHSSLGRLA/ AIVAK\QVLLGRK\VVVV\RCEN\NISGNF \YR\NKLKYLGFPPPSGMNTNPSR\GPYHF G\APSRILLAGTVRGM\LPHTKAEAKAA \LDRL\KVFDPGIPPPYQGEKSGMVVPAA LKVVRLKPTRKFCLIWGRLLAPEVG\WK YQAVTATLEEKRKREKPRFHYRKKENSI MRL\RKQAREETWRKKIDKYTEVLKTHG LLV
2683	10734	A	3606	114	353	
2684	10735	A	3607	104	342	
2685	10736	A	3608	211	241	NFNNGRGGLAAGRKKPDWLDSTLNS*PS H
2686	10737	A	3609	37	116	
2687	10738	A	361	654	942	CHACNPQHFGPRQVDHLRSGV*DQPG QHGETPSLLK\QKLAGHGGVHL*S*LLR RLRQENRLNLGGGGCSEPRSHHCIPAW VTE*DSVSRKKKK
2688	10739	A	3610	104	516	ALSSRGVMAEYGTLLQDLTNNITLEDLE QLKSAFKE\DPSEKSEEITGSAWFSFLE SHNKLDKDNLSYIEHIFEISRRPDLLTMV VDYRTRVLKISEEDELDTKLTRIPSAKKY KDIIRLPSEEEI\KLAPPPKA
2689	10740	A	3611	569	838	PTVLWEPPSFPPPPQGIPIHSG/PDILTGR RRASPSGLCYSENGGLTEEGSTRPPAH/S PGATVSSPPPPPPSSSLPCCLGNRHFD RV
2690	10741	A	3612	268	356	
2691	10742	A	3613	489	605	QLQVCYCT*RPYSGTRCGVSNVQLLCS LLSHLCCSAS
2692	10743	A	3614	391	561	
2693	10744	A	3615	367	855	GARRQAHTMALK\RIKELSDLARDPPA QCSA\GPVG\DDMFH\WKATINGDLMDK PIFKGGVFFLTIHF\PTDYPFKTPKVAFT TRIYHPNINSN\G\ICLDILRSQWSPALTIS KVLLS\CSLL\CDPNP\D\PLVPEIARVY KTDRDKYNRISREWTOQYAM
2694	10745	A	3616	1002	1480	MLLLKTTERFEVSVMCTYV\SNLGGK QRSVSFLASGLMRVSTGP\ELRLHHSFVL TGDVGRRICRLVGLFTK\GDTSSKRVHP FSPGP\CFLLCDLAR\VGSSPKNRVPHT RTQTSTQRSC\TVFVWQRC\SLVGP\QVTV FTMYFHHSLSRSISRFSSG
2695	10746	A	3617	223	415	
2696	10747	A	3618	1	858	
2697	10748	A	3619	144	1339	DPEQPDMEQPWPPPGPWSLPRAEGEAE ESDFDVFPSSPRCPQLPGGGAQMYSHGIE LACQKQKEFVKSSVACKWNLAEAQKKL GSLALHNSESLDQEHAKAQTSIRTEGN GKKNWQRKEALRQREKMCLWSTDAI SKDVFNKSFNQDKRK\DTEDKSEFSM QKYEQKIRHFGMLSRWDDSQRFLSDHP YLVCETAKYLILWCFHLEAEKKGALM EQIAHQAVVMQFIMEMAKNCNVDPGRC FRLFFQKAKAEEGYFEAFKNELEAFKS RVRLYSQSFSQPM\TVQNHVPHSGVGS GLLES\LPQNP\DY\QYSISTALCSLNSVH KEDDEPKMMGHCIWVKTA\EA\KCYFVT GKGGTWAIFLD\TFMGVLALYFCSVFDG RERV\KCFVNNF
2698	10749	A	362	1	2322	
2699	10750	A	3623	44	420	
2700	10751	A	3624	20	421	
2701	10752	A	3625	1	346	LRPQSAQSSFPSPGSPDVQLATLAQRV KEVLPHVPLGV\IQRD\AKTGCV\DLTITN LLEGAVAFMPEDITKGTQSLPTASAKF/ PRQESLQERKQALYEYARRRFTERRAQE

					AY
2702	10753	A	3626	162	461
2703	10754	A	3627	39	260
					DCKPVARPSTKAKTDQSGPFLSLLPHRY LSLSLTLRSSSPESMTCWMEGREKESASQ*VTTTTFRASMSSYTA
2704	10755	A	3628	1	2160
					FRPGAPEAAVMELSSWGPRLFDHSHRL PGDCFLLLVLLLYAPVGFCLLVLRFLGI HVFLVSCALPDSVLRRFVVRTMCAVLGL VARQEDSGLRDHSVRVLISNHVTPFDHN IVNLLTTCSTVSESEADSATVRFPGAQLK APLSPLAFPMEDTEALPLTPILYPTCQFFF FIFLNIFLLAFSSPGSQPILNKSPQAFVC WSRGFMEMNGRGEVLVEASLKRFCSTR LPPTPLLLFPEKKATNGREGLLRFSWWPF SIQDVVQPLTLQVQRPLVS/VGECVLNRE SLGLEGEISHPWPLRPHLMPSQTVSD ASWVSELLWSLFVPFTVYQLVAKELGQT GTRLTPA\DKAEHMKRQRHPLRPQSAQ SSFPPSPGSPDVQ/IWATLAQRVKEVLP H/VGPLGVIQRDLGMKGKGGPTLGDGHRE EKWVVKEETKTGCVDLTITNLEGAFAF MPEDITKGTQSLPTASASKFPSSGPVTPQ PTALTFAKSSWARQESLQERKQALYEYA RRTFPQVTRSHIISTALEDPCLSKISTICQ RGNLSLRSCORATMTSQPLRLAEYGPSP GESELAVNPFDPFSSRYELLKQRQA LPIWAARFTFLEQLESNPTGVVLVSGEPG SGKSTQIPQWCAEFALARGFQKGQVTVT QPYPLAARSLALRVADEMDDLTLGHEVG YSIPQEDCTGPNLLRRCWDRLLLQEVA STRGPGKLGRAGTR
2705	10756	A	363	8453	9757
					APCLLGWSLPSRSKTYAYLFSPSRMP VYPKWVGADHADDIQQYVFGKPFATPTG YRPQDRTVSKAMIAWTFNAKTG*DVG *VQGGGPQPRRASHHEALFPHLPVEGLW ASHLTSPCIGIHVCLRMVRTGRAPSPCTC TASAQYAVRGMVPRASSEGGDGSQVQV ESRASAPWESPAPAQPLLTLQDPNMGD SAVPTHWEPTYTENSYLEITKKMGSSS MKRSLRTNFLRYWTLTYLALPTVTDQE ATPVPTGDSEATPVPTGDSEATPVPT GDSGAPPVPTGDSGAPPVPTGDSGAPP VPPTGDSGAPPVPTGDSGAPPVPTGDS GAPPVPTGDSGAPPVPTGDAGPPVPP TGDSGAPPVPTGDSGAPPVPTGDSETA PVPTGDSGAPPVPTGDSEAPVPTDD SKEAQMPAVIRF
2706	10757	C	3631	44	340
					MKCSQPXRCHFQSDQKCAPCPRAQTH WLEPPGRVQTISSMRNAQKGFADSIRLW RLPASGVGVVVSPEGAGDPSHLLDPPGH SAPYSPAPRQLSRVP*
2707	10758	C	3632	2037	2426
					MKCSQPPRCHFQSDQKCAPCPRAQTH WLEPPGRVQTISSMRNAQKGFADSIRLW RLPASGVGVVVSPPQIQTEVAPEGMYLV GSSSGTLGGCRALTQVFLSLSLGCVCA CACACLCFSLWAHQDVSS*
2708	10759	A	3633	184	9818
					IEEPRDTRLQVCSGVHIWCLDKFKMRKH RHLPLVAVFCLFLSGFPTTHAQQQADV KNGAAADIIFLVDSSWTIGEEHFQLVREF LYDVVKSLAVGENDFHFALVQFNGNPH TEFLNNTYRTKQEVLSHISNMSYIGGTNQ TGKGLEIYMQSHLTKAAGSRAGDGVPO VIVVLTGDHSGDGLALPSAELKSADNVN FAIGVEDADEGALKEIASEPLNMHMFNL ENFTSLHDIVGNLVSCVHSSVSPERAGDT E

2709	10760	A	3637	312	805	GPQAGSSPEILLPEDNSLIRWAGAGCHTQ DSATTVTASWAPLCAGAGREEDGTPCV CLGRSARPKLVFGRPLRTSAALRPGACIP HGLLCYPREPVDFRPGSGRAWPPRSPSP/ CQDPRPSRSAPGSEPGW/CPDPPAPRLV TLGRASPHLTLPRRAAPPPCRWRP
2710	10761	B	3639	199	286	XSELESALQMEPAAFQALYSAEKPCKLED EHLVFFCQMGRGLQAHAAAGPESWIHW GSQLRWSL*
2711	10762	A	364	10	548	FRLVLSRLEGIGAILAH*NLCLLGSNDSP ASATRVAGITGTRHHAPLIFVFLVEMGF RHVGQAGHKLLISGDPPA/SASQSAGITG VSH/ARLAALSNF*GLGQVPTPLKQATLL SLLDTSPLPAIFFLFFF*DRFSVVTQAEV QWGDHCSLHP*PTGLK\DPASASRLGTT RTRHHSR
2712	10763	A	3640	754	1082	GMVHICCLGAPRTQPFQAQLPNLSAKLL AFPSTLSTPPVSELESALQMDQPAFQAL YSAEKPKLEDEHLVFFCQMGRGLQAT QLARSLGYTGARNYAGAYREWLEKES
2713	10764	A	3641	113	737	AGPDSFCNFSVCPSTSTAWILVLAQFLL SPTLLSPRMLTVALLALLCASASGNAIQ ARSSSYSGEYSGGGGRFSGHSGNQLDGP ITALRVRVNTYYIVGLQVRYGKVVSDY VGGRNGLDEEFLHPGESVIQVSGKYKW YLKEAGYLVPKGPFLSFGKSKGP\SFN AVPLHPNTVVRFISGRSGSLIDAIGLHWG CFHTSCSRC
2714	10765	A	3642	1724	1818	
2715	10766	A	3643	1	894	RGESRVLWSELEGEAGGAGGWASSLNA RMDNRFATAFVIACVLSLISTIYMEG\SIG TDFWYEURSPGQENSSDLNKSIDEFIS DEADDATYN\DALFRYNGTVGLRRVY SPYPKTLHWVLAHERTESFDV\TK\CV SFTL\TEQFMEKFVDPGK/HTNSRGLDLL RTYL\WRCQFLLPFVSLGFDVLWGALIG LCA\ICIRSLYPSIATGILHLLAGLCTLGS VSCYVAGIELLHQKLELPDENVSGEFGWS FCLACVSAPLQFMASALFIWAAHTNRK EYTLMKIAYRVGMSKKPACF
2716	10767	A	3644	323	898	
2717	10768	A	3645	816	1171	LFKHFWGPVANWGLPIAANDMKKSPG DYSVGRMTFALC\CYSLTFMEILPYKVQ PSGTWASCFACHGTNEVRPSFIQEGRLI PNTRMDLKRASGINQWGKGKNKVFEED SLCPGCC
2718	10769	A	3646	205	369	
2719	10770	A	3647	3	451	CSGAGAEPANPRSPRSLVPSLESTSTSV PPAPGTMATDSWALAVDEQEAASG AVVKTANAEKTDEEEKEDRAAQSLN KLIRSNLVDNTNQVEVLQRDPNSPLYSG KSFEELRLKPQLLQGVYAMGFNQPSKIQ ENALPLMLAEPY
2720	10771	A	3648	1	186	
2721	10772	A	3649	2	261	SSANNISILGAFRSVTKWLS*THPL*FFCQ CLCLSPTYELALQTGKVIEQMKGFPYEL KLAYAVRGNKCEYGRRLNSEQGRGLG V
2722	10773	A	365	252	934	LCASRLLPAPPMLSLSHRISHPWPVGVH YGC*GGRSGSDIGSCRETGLCRGFSPGCI KTSTSPWAPAG*APSTGPGQETCTAHS PFIPAPA*AQGLKF*GVTESICAGAAGTA GGTETAVSAGSPAGQAQPGGAGQSLSA GSQMA*GSDHPGPIWQTC*SVQGAFALD G*GG*LHPHPP*GPATLPEGGGGVCPAA KNASGATREVPVLAQVHAPGATWLRP P
2723	10774	A	3650	1	2613	

2724	10775	A	3651	3	550	LCSSR/DEKFKALCNLPG/AITMAQAMIF CHTRKTA\SWLAAELSKEGHQVALLSGE MMVEQRAAVIERFREGKEKVLVTNVC ARGEQRTCPWTSARLGVPGPIRARNPCI QGSRMVSGRWVGLVTLFLSRRDCLDFP EVVRTHTCQVRWLMQPAIPRQENCLNPG DRGCSEPRMCYSTPSWVTE
2725	10776	A	3652	1	1571	CRGAGAEPANPRSPRSLVPSLEYTSTSV PPAPGTMATDSWALAVDEQEAAAESLS NLHLKEEKIKPDTNGA\VKTNANAECT DEEEKEDRAAQSLNKLIRSNLVDNTNQ VEVLQRDPNSPLYSVKSFEELWLKPQLS QGVYAMGFNRPSKIQENALPLMLAEPQ NLIAQSQSGTGKTSPLVLA\MLSR\VEPI RPDTPQCLCLFPTYEAGGFKQGKVIEQM GKFYPELKLAYAVRGNKLERGQKISEQI VIGTPGT/VGLNWCFQLKFIDPKKIKVFV LDEADVMIATQGHQDQSIRIQRMLPRNC QMLLFSATFEDSVWKFAQKVVPDPNVK LKREEETLDTIKQYYVLCSSRDEKFQAL CNLYGAITIAQAMIF\CHTRKTASWLAAE LSKEGHQVVMMLSGEMMVEQRAAVIERF REGKEKVLVT/TPNLCSRGIDVDQVSIVI NFDLPVDK\GNPDNET\YLHRIGRITARF GK\RLA\WNMVDK\HSMNIL\NRIQEH FNKKIER\LDTDLDLDEIEEN
2726	10777	A	3653	3	421	
2727	10778	A	3654	209	435	
2728	10779	A	3655	126	775	APAKVRTAQEDRDTFSSQRTRWKEQNTI DNMALLGPKGLLFLAAFIITSDWIPLGV NSQ\RGDDVTQATPETFTEDP\NLVNDP ATDET\LA\VLADIAPSTD\LA\SLSEKNT TAE\CW\DEKFT\CTRLYSCASGPVNQMH FIQLCFHPVLR\RMIVQPRE\NCSSVLC KGTPKPMKDEL\CRQ\MAGLPPLGRL\RRP QLLPDFPPCENVDLQRPNGL
2729	10780	A	366	169	457	SLEVSLGDHFQKCRFLEKRERFWKGMFS FC\MAV\SGFLAAGAGLKPRSG\WH*VFH SPRRSWTENFKFQRDEVSASPLGAWRAL TKEKGGAQPLEGL
2730	10781	C	3660	162	425	MVGPSLHAGXXXVYIPRFLYIRSWLPCIF FSGGVTVGNIGRQLAMGVPEKPIVIESSK PXILESXGRFLEENLXLVDYXKGLSFFLK *
2731	10782	A	3661	89	308	
2732	10783	A	3662	2	454	
2733	10784	A	3663	570	1418	PMPRLHDHFWSCSCAHSARRRGPPRAIA AGLAAKVGEMIIIVFVSGPSLMAVLSASD ADPAPRGRSAVKSGPYPGSPYPNTWHHS LMQKSLVLFVGEVLALVLNLLQIQRNV TLFPEEVIATIFSSA\WWVP\CCGTAPAD VGLLYPCIDSHLGEPHKFKERMGOVSMR CIAVFVGINHASAKLDFANNVQLSLTLA ALSLGLWWTFDRSRGLGLGNTIAFLAT L\ITQFLVYNGVYQYTSPDFLYIRSWLPC IFFSGSVTVGNIGRQLGYGVFLEKPHSD
2734	10785	A	3664	195	462	RIFSMTSGRLRWCTWRPATALWSASLR LGTSSMHPSPRSISLP/PVHVHTHNSGKE VLGLQVQSRSGTGPAQSAGSGAVQG GNWCIF
2735	10786	A	3665	12102	12327	
2736	10787	A	3666	535	992	RIFSMTSGRLRWCTWRPATALWSA\SL RLGTSSMHP\SPRSISLPLSMMLSLPLPS NTRGLSPTALVRSP\NSEHATSCPRHL WRCRAPLRSPSLGRLPGATPGVPSHVH THNSGKEVLGLQVQSRSGTGPAQSQA GSGAVQGGNWCIF
2737	10788	A	3669	76	419	

2738	10789	A	367	186	370	QIRETS GTGT*YTSASQSAGIEVSHHAR QMFQFYSQKYTLPNCCKL*ILMFKIKFFL TQK
2739	10790	A	3670	71	350	AFIPAMAELIQKKLQGEVEKYQQLQKDL SKSMSGRQKLEAQLTENNIVKEKRYES QLRDLERQSEQQRETLAQLQQEFQRAQA AKAGAPGKA
2740	10791	A	3671	334	1191	GLLPHLGPRVQRLPRLSLSTLACGLTRGP HPFLLPQIHHLTRIVGIGGTFDVS KL PFL SSPDLSK SMSGRQKLEAQLTEYNIAKEV RDWDLWGEEGPVLAMVLITYVPSLHQE LALLDGSNVVFKLLGPVLVKQELGEARA TVGKRLDYITAEM*VFIPPPCAAPCDASE PLE*RC*TIAEQLSIVAPSPVPPTLSFPF*P PFFSLPWISRFSTYLFLAFSTLHSESY*FLP FCLSPLSLLSKRYESQLRDLERQSEQQRE TLAQLQQEFQRAQAAKAGAPGKA
2741	10792	A	3672	210	617	AFIPAMAELIQKKLQGEVEKYQQLQKDL LSK SMSGRQKLEAQLTENNIVKEELALLA DGSNVVFKLLGPVLVKQELGEARATV GKRLDYITAIEIKRYESQLRDLERQSEQQR ETLAQLQQEFQRAQAAKAGAPGKA
2742	10793	A	3673	3	266	
2743	10794	A	3674	31	500	ARVTA AVSAAVAKR VWRDGFDCSGY YSLTTILLVQPTKRPÆGRTYADYESVNE CMEGVCKMYEEHLKRMNPNGPSI/TH NTTSQLFDIDDLADLSCLVYRADTQT YQPYNKDWIKDEDPVLLSSGKAQQA REIIVVGSHWGGWGA WDTGV
2744	10795	A	3678	1	134	
2745	10796	A	3679	162	437	RRGLFPAGPGPRQEPSRASSPMPSERLRN IKDFFLTARRKDAKSIVKIKKNKDNVVK FKVRC SRYLLHPWSSPDKEKA EKLAKQS LPPRF GK
2746	10797	A	368	150	799	QC*DPETSETV*EKL RAGRHRQRCCHGGQ SCFDKSATRALPPPRKWRHRGTRCAATK RTRLGEMAVLGP*E*RQPEEFRTTSILA EPTVLSRRKCRPSEKRGSA TEKFGATSA VTENPPLGAAGERANKTL/RCCHRD TDF RTPASDGERRRSHTEGPINRSLAMRMGK GGSIGTENRADWAGPGCKVCESCS/RVL HLCVYGSHHRIWHMEGYQHMLV
2747	10798	A	3680	60	216	
2748	10799	A	3681	505	794	NVVECLFKDALPQLSADRFLASSILLGDL GVEEVHFSVSNLTGEELWHLLRSTSLGI ASPPHIEVPFLEVDGDRTKTQVFPLTNLH VRAHASAHAS
2749	10800	A	3682	685	1484	LRLTFPEFSHTKVRTMSLFPSP LLLL SM VAASYSETVTCEDAQKTC PAVIACSSPGI NGFPGKDGRDGTGKEKGEPGQGLRGLQ GPPGKLGPNGNPGSPGPGKGQKGDPG KSPDGDSSQAASERKALQTEMA RIKKW LTFSLGKQVGNKFFLTNGEIMTEKVK A LCVKFQASVATPRNAAENGAIQNLKEE AFLGMPDEKTEGQFVDLTGNRLTYTNW NEGEPNNAGS\DEDCVLLKNGQWND SPCISTSHLAVCEFFI
2750	10801	A	3683	427	751	
2751	10802	A	3684	31	558	EFVPHSEKMLYDQAQLAVAYLYAFQLS GDEFYSDVAKGILQYVARSLSHRSGGFY SAEDADSPPERGQRPKEGAYYVWTVKE VQQLPEPVLGATEPLTSGQLLMKH YCL TEAGNISPSQDPKGETCRARMMLDRPVL RWELTAARFGLDV/EKAVRTLLNTGLEK LFQARKHRPKP

2752	10803	A	3685	3	399	KCVCLLTAFSERMRRVPVALPEMVRALS AQQQTLKQIVI/VWRPSGQRTPKALVQC VHSVYIPNKVLILADGDPSSFLSRQLPFLS TLRRLEDQATAYVCENQACSVIPITDPC LRKLLHPLTCPYPLGWGR
2753	10804	A	3686	2	2238	NVAAMLGARA WLVRVLLPRAGAGLA ASRRGSSSRDKDRSATVSSSVMPAGGK GSHPSSTPQRPVNRILIEKSPYLLQHAYN PVDWYPWGQEAQFDKARKENKPIFLSVG YSTCHWCHMMEEESFQNEEIGRLLED VSVKVDREERPDVDK VYMTFVQATSSG GGWPMNVWLTPNLQPCVGGTYFPED GLTRVGFRVLLRIREQWKQNKNTLLEN SQRVTALLARSEISVGDRQLPPSAATVN NRCFQQLDEGYDEEYGGFAEAPKFPTPV ILSFLFSYWLSHRLTQDGSRAQQMALHT LKMMANGGIRDHVGGGFHRYSTRDQW HVPHFEMLYDQAQLAVAYSQAFQLSG DEFYSDVAKGILQYVARSLSHRSGGFYS AEDADSPPERGQRPKEGAYYVWTVKEV QQLLEPVLGATEPLTSGQLLMKHYGLT EAGNISPSQACELADKGHSPQDPKGELQ GQNVLTVRYSLELTAARFGLDVEAVRTL LNSGLEKLFQARKHRPKPHLDSKMLAA WNGLMVSQYAVTGAVLGPRLINLYAT NGAKFLKRHMFVDSGRDLADLLHR/H LGGLWSTATPPCWGFLEDYAFVVRGLL DLYEASQESAWLEWALRLQDTQDRLFW DSQGGGYFCSEADWGAGLPLRLKDAQ DEAEPSANSVSAHNLLRLHGFTGHKDW MDKCVCLLTAFSERMRRVPVALPEMVR ALSAQQQTLKQIVICGDRQAKDTKALGA VRPLCLHS
2754	10805	A	3687	5	188	
2755	10806	A	3688	132	341	GFTSFISRLSCLSFCLLLET/CPVTCWCWE APRCNQKCTDPAARRPDPQTASQDRLR CAPCTCHOPLASR
2756	10807	C	3689	4	204	MCFQRKSYFHIQTLYCPLICISALRYSTG PAPAMWKCHTAPVQKDWLTPITLISS PNFLTINL*
2757	10808	A	369	1200	1678	RYKLLSYRKPEAIEQKENIPFQNLRSFS KNLHFWK*SPKETSRLYHECLQNLSSCLI LTLAYPVQII/CHLFLDEPGRMSDQRRQA NVPEMGFHHVGG/ACNLSTSDRPASAS QSARIEVSHHARQMFQFYSQKYTLNPN CKL*ILMFKIKFFLTQKQN
2758	10809	C	3690	57	209	MEVXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXGRLFGPL*
2759	10810	A	3691	363	424	
2760	10811	A	3692	2	264	KFSLIKLRKENFPTARICRLVYPLYPLKIF IFPKALNFCREVGPICPPPKAGSFPKIPKV AFNRPLRKKIIPSQPALNWGPVRVP
2761	10812	A	3695	2	201	GRVGSQSCORQQQGDTKRRRLSSYPWR RRQRWRRRRYTSSRRKPQFLRQRQRPRQ ARRRWRATRFA
2762	10813	A	3696	31	445	EKAVVTSAASSLVYTVYTAQAPARSFHP FCSTWSAKEPNTTAGEGGSTNECQLSA /CPGANCPGLTLKSPQNCPSLPRPPLP ACRGYESVWARLLQSVHAIGQRLRES WSPKLYWVHPPQEVVGAFTFLFLV
2763	10814	A	3697	73	404	AYSRTSSSLSTMNQTAILICCLIFLTLGI QGVPLSRTVRCTCISISNQPNRPLEKL EIIPASQFCPRVEIATMKKKGEKRCCLNP ESKAIKNLLKAVSKERSKRSP
2764	10815	C	3699	250	495	
2765	10816	B	37	44	307	MVAVSCRQRPSTRPAWGKVGAAHVR MCAEALERMFLSFPTTKTYFPHFDLSHG FCPLRATGKKVADALTNAAHVGRHA

						QRRCP*
2766	10817	A	370	1	1107	MTLEATHLLLRVLLVLLASGGSLFQSP VKSILGVAVTVVLALLLALLINRYLQK ARGRARKPYTEDVSVDDKKTETWEWAR GEGESYHVYDDVQKEKTTDRMIRSSSM CVHKINTSVSMCAQETPNSSKKAKLGQK IPVQGKDEILHKALCFCPWLKGKGGMEPL RLILLFVTELSGAHNTTVFQGVAGQSL QVSCPYDSMKHWGRRKAWCRQLGEKG PCQRVVSSTTCGLLSFLRRWNWEHSHS QTIPWGGTLTITLRLNLPQHDAGLYQCQS LHGSEADTLRKVLVEVLADPLDHRDAG DLWFPGLDRASRMPMWSTASPLRVAR EGR*WEEKPRRSPTRDQPSLHTCHLATR TPCSALARDYSA
2767	10818	A	3700	226	854	RVPGTNLMSGIALSRLAQRKAWRKDH PFGFVAVPTKNPDGTMNLMNWECAIPG KKGTPWEGGLFKLRMLFKDEYPSSPKC KFGPPLFPNCVTSGASCLASFLEEDKDW RPAITIKQILLGIQELLNEPNIQDPAQAEA YTIYCQNRVEYEKRVRAQAKKFAPSCRS SLEPSRTWAVLLLSLRPQVSISVLRHFLC VYMAFCLCCCLE
2768	10819	A	3701	813	1637	TCQGIALSRLAQEYKAWRKDHFPQVYN AVPTKNPDGTMNLMNWECAIPGKKGT PWEGGLFKLRMLFKDDYPSPPKCKFE PPLFSRIVYPSGAKCACPSLEEDQRTW RPSPTIQTFRLLRNYRNFLKWNPNIQDP SFQAEA YTIYCQNRV/ESYEKRVSTKP RKFCAPHKQRP CGNRQKERDWFQOELV YNIFCKSKVCSHTMTSHLGGVGRAPSSH CPPRGVRSRIRLNCVPVSIQSSFLRCFCIF GLLCKTRLFILMSSISTAVKL
2769	10820	B	3702	236	362	KQEPQIPCQGGKDAAVLQGSQPSLAGIR TTRLRDPSSKKWPKGX*
2770	10821	A	3703	1	808	TPPFLAMAPALLLIPAAASFILAFGTGV EFVRFTSLRPLGGIPESGGPDARQGWL AALQDRSILAPLAWDLGLLLFVQGHS MAAERVKAWTSRYFGVLQRSLYVACTA LALQLVMRYWEPIPKGPVLWEARAEPW ATWVPLLCFVLHVISWLLIFSIFLVFDYA ELMGLKQVYHVLGLGEPLALKSPRAL RLFSLRHPVCVELLTVLWVPTLGTDR LLLAFLLTLYLGLAHGLDQQLRRLRA QLQRKLHLLSRPDGEAE
2771	10822	A	3704	221	1728	GQAGCSDTMGSCCSCLNRDSVPDNHPT KFKVTNVDDGVELGSGVMELTQSELV LHLHREAVRWPYLCLRRYGYDSNLFSF ESGRRCQTGHGIFAFKCSRAEEIFNLQD LMQCNSINVMEEPVIITRN SHPAELDLPR APQPPNALGYNVSSFSNGCPGEPFRFSA PQRLSTSSLRHPSLGEESTHALIAPDEQS HTYVNTASEDDHRRGRHCLQPLPEGQ APFLPQARGPDQRPQVFLQPGQVKFVL GPTPARRHIMVKCQGLCPSLHDPHHNN NNEAPSECPAQPKCTYENVTGGLWRGA GWRLSPEEPGWNGLAHRRRAALLHYENL PPLPPVWESQAQQLGGEAGDDGDSRDG LTPSSNGFPDGEEDETPLQKPTSTRAAIR SHGSFPVPLTRRRGSPRVNFDPRPGPE PPRQLNYIQVKLKGWGGDRPKGPQNPS SPQAPMPTTHPARSSDSYAVIDLKKTVA MSNLQRALPRDDGTARKTRHNSTDPL

2772	10823	A	3705	1143	1849	PAILSPNLDDLNFVSRASVPTLAPSAPSA SSSPARIPAATROGRRSPRIPPAPSNEASP APGRPRVPGAA\PPRFPKPTIQASGADRA VDCGILKLQKSPARLARPRWPRRPSKRF WSAAGSVEEQPKPPKAP/PAKSPEQSPQL SVLPLATITPQAYGASFEKMKNLKTRRG GRSRWHFFPNVIPQAPSLKWGFQTS SAEVFHVDRSLASHKMGPRRPSPLW APPFWNPRH
2773	10824	A	3706	130	360	SLPKKKNPDLHGFVGKFYQTFKEKIPASS SSNKF/PQDIYEASITL/IPKPDQDFRKKEN CSSVSLIIFPEIINKILEN
2774	10825	A	3707	46	292	DQASSNGVMTIARRNPDLRFLPDEAR SLPPPCLTDPRLLYIGFLGYCSGLIDNVI RRRPIATADKKTYGEIFEKHFHPIR
2775	10826	A	3708	269	476	STCLGLPRCWNRYRREQRLVYM*FVHL YYF
2776	10827	A	3709	448	894	DQASSNGVMTIARRNPEPLRFLPDEAR SLPPPCLTDPRLLYIGFLGYCSGLIDNVIR RRPIATAGLHQRQLLYINGLFFLLGYL VKREDYLYAVRDREMFYGNLHPEDF FLKEDKKTGEIFLKNSHPTLKVQKC LAPSFH
2777	10828	A	371	2	1309	EQQDLQDPLEVFHPTVEAAEALHIQEP GGEPSQPTQLPGGAPNTRPPHPQALWS V*RAPEQELHQDGRQPTG*QWLRTCSLG WPEAQLPAHLIGQADWPSQRPP*DPE*TP PRPQQNPGPSNWRTCFATPSCTGWA*AT TQIRMIENGKPELPGPPSGEVPLGQQQVG PGVPSGFGPGQAPPGLLHLSNNIHQSGV FNEFLFPWGFGEAGPYNGHSASSTTP CPTGRCKPATFRRRH*PPGHPVWATTKS RGM/TAATAGPQWGLNTARHPDGEA EPGS*ARAQLASNPAPHLRVP*PQLRLPH SPPFPWVPKGCRTQRPQEGMTCYAWAH ELRPAALPPQPPRGTP*SFFLVHSPACPAQ ALPPNLYCPGGGWEVEAQHPAQMTVPF LEAPHPHWPTGG*VSPYPSGPAQGAAS EVGGCLSIKETPCNV
2778	10829	A	3714	1	948	
2779	10830	A	3715	644	2034	AIETQAITDNCSEERKTFNLNVQMNSMD IRCSDIQGDITQGPSVIAFISYSSLGNINA TFFEEMDKKDQVYLSQVVSAAIGPKR NVLSKSVTLTFQHVKMTPSTKKVFCVY WKSTGAG/CSQWSRDGCFLIHVNKSH MCNCSHLSSFVLMALTSQEEDPVLTVI TYVGLSVSLLCLLALAALTFLCKAIQNT STSLHLQLSLCLFLAHLFLVAIDQTGHK VLCSHIAGTLHYLYLATLTWMLLEALYL FLTARNLTVVNYSSINRFMKKLMFPVGY GVPVAVTVAISAASRPHLYGTADRCWLH LDQGFMSWFLGPVCAIFSANLVLFILVF WILKRKLSSLNSEVSTIQNTRMLAFKAT AQLFILGCTWCLGLLQVGPAQVMAYL FTIINSLQGFIFLIVYCL/LSAQVQKQY QKWFREIVKSKSESETYTLSSKMGPDSK PSEGDFVFPRTSEEKIL
2780	10831	A	3716	1	451	FFFFFVRQDLALSPRLECNHIFAHNCNL LPDSSDPPVTSFQVARTTGRNYAQLNL YFFVETEFAMLTRAGLNLSSRGPLASA SQSVGDYR\NSHHAQLIFCIGRDRVSL WCPEWSQTPEFKRSACLPCWCWDYRGE PHVPVPSAL
2781	10832	A	3717	1	5898	
2782	10833	A	3718	1	333	

2783	10834	A	3719	1	5699	VNDNTINTAGSPGEVLSRRVCVNLKLTALR PDMWPKSELKLQWFDKLLMTVEQPNQV NYGNICTGLEVL SFLT TLQSPAILSSFKP LQRGIAACMT CGNTKVLRAVHSLLSRL MSIFTEPSTSSVASKYEELECLYAAVGK VIYEGLTNYEKATNANPSQLFGDQGSW VTLAPGTLMLKSA CSNNPSYIDRLISVF MRS LQK MVR EHLNPQAASGSTEATSGT SELVMLSLELVKTRLAVMSMEMRKNFI QAIL
2784	10835	A	372	475	928	NLVACSLPISPETLSPVPLATPKPSGLLALS LGLAFLSCPLATPSPLPTKPGTAGPPQ PCPCSLAPQTL YLSRRRLGGWRPSIPAQ MTPINRPESQTPVFLEAPHWPTGG*VS PYPSPGAQGGAA SEVGGCLSIKETPCNV KKKKKK
2785	10836	A	3720	109	11749	ARRGERRLVELMDPILFSGEANQPKRKM AFVATQGATEVDQTTLMKKYLQFVAAL TDVNTPDETKLKMMHEVSENFENGTSSTP QYSTFLEHIIPRVLTFLQDGEVQFLQEK AQQRLKLVLEIHRIPTEHLRPHTKNVL SVMFRFLETENEENVLICLRHIELHKQFR PPITQEIHHFLDFVKQYKELPKVNNRYF ENPQVIPENTVPPPEMVGMITTIAVKVNP EREDSETRTHSHPRGSLSLKVLAEAL
2786	10837	A	3721	106	11708	
2787	10838	A	3722	2	581	RRFERRPMPHEVYTPPLVLQPLSLVSP WKSSQHIFRVLNTNID\GRKNSPLPITA HLRVWARRYAHVVLKADIDLTKRAG ELT\ED\EVERVIT/ISMQNPRQYKDPKTG FFEQDKKDVKDWKITARVLAQWVWTT SRERPGSRLEERFRAHKKGLRHFLGGLS CSEGAHPRPTWPAVGRHRGASAGARR
2788	10839	A	3723	6	297	GIRPRKREQAASEADADKGKPELEYGKA KLSFQSCCEGKAFQRHDHLARHSHLH LKDKARPFQCRYCVKSFTQNYDLRHE RLHMKRRSKQALNSY
2789	10840	A	3724	201	403	
2790	10841	C	3725	78	422	
2791	10842	A	3726	591	966	EVLVTMALTRPSAASSKPQSSPWQCPL DSSHWPSPVAHLPTSYSGRE\GDKHTLSK \RELKELIQKGAPPLASKLQDA\ELARLM EDL\DRNKDQEVNFPRKYVTFPGGAF ESTIEGLKRVEK
2792	10843	A	3728	165	828	KEKARGRPKPLLLLPTSATTAMGLTISS LFSRLFGKKQMRILMVGLDAAAGKA\TIL YKLKLG EIVTTIP/TIGFGVKTIGYRNICF HSMGMLGGPDRIPLWKHYFQNTQGLI FVVDSDNRERIQEVADELHKMLLVDEL RDPVLLLFANKQDLPNAMAISEMTDK LWLQSLRNRTWYVQATCATQGTGLYEG LDWLSNELSKQLNEIGYLTQGPWFG
2793	10844	A	3729	191	1574	GVSQRDLTRLFGFSSPQPLKKKLDWLS EDMNYARFITAASARRNPSPIRTMTDILS RGPKSMISLAGGLPNPNMFPKTA VITVE NGKTIQFGEEMMKRALQYSPSAGIPELL SWLKQLQIKLHNPTTIHYPPSQGQMDLC VTSQSQQGLCKVFEMINPGDNVLLDEP AYSGTLQSLHPLGCNIINVASDESIVPD SLRDILSRWKPEDAKNPQKNTPKFLYYC FQMGNNTGNSLT SERKKEIYELARKYD FLIEDDPYYFLQFNKFRVPTFLSMDVDG RVIRADSFSKIHSSGLRIGFLTGPKPLIERV ILHIQVSTLHPSTFNQLMISQLLHEWGEE GFMAHVDRVIDFYSNQKDAILAAADKW LTGLAEWHVPAAGMFLWIKVKGINDVK \ELIERKRPLKMGVLMPL\GNAFLRRIAQ LPSPYLRAFSSASP\EQMDVAFQVLAQ LIKESL

2794	10845	A	373	2	643	PICLFSRPTLRPSRSKVSLEGRGANMAA RWRFWCVSVTMVVALLIVCDVPSASAQ RKKEMVLSEKVSQLEWTKRPIVIRM NGDKFRRLVKAPPARNYSVIVMFTA/LQ LHRQ/CVVCKQADEEFQILANSWRYS SAFTNKDIFFAMV\DFDEGS/DMYFQML KH*ISAPNFPSTFLQKGPKRG\DTYELQ VRGFFQLRQISPW\ADRTDVQY
2795	10846	A	3730	2	454	RSFFFFCEVGSWVGSMRVVMARLLSEG EQCIPTACAAFAQQPGRPRRGLAGVGE GGPQCSWVNYRCTLFLVSLGTDLAR GRGNSATGP\TAPADSKQLSCKTFIAVLS LSKEAGFCNVVQGWVSTSWGSSSPVPQ FFPKLLEFTGQ
2796	10847	A	3731	379	640	DGVSLCYPGWNTVAQSQLTVGSISWAQ VIL\QTQPPRVAVAPGRITTVYRDRVSLCC PGWSGLIVLGLKPPRVLGITGMGSPQPRP GI
2797	10848	A	3732	373	598	YPCPPE/RCAQRHGQACLLPSLERKCVIS LPPSPHQTFAGPKGLGHGDALSGLIWP QTPSCEPTQTPKQSNQLVN
2798	10849	A	3733	2	444	
2799	10850	A	3734	151	485	SPRGHYQLLSGRALADRYRRIYTAALN DRDQGGGSAGHPAS/RSENLENTVIIPDI KLHSNPSAFNIYCNVRHCVLEWQKKEIS LAAASKNSVQSGESDSDEEEESKEPPIN
2800	10851	A	3735	1	176	
2801	10852	A	3736	1	6570	
2802	10853	A	3737	114	14222	AAPVAAPGALFMPVPDGSVAAAGLGLG LPAADSPGHIYQLLSGRALADRYRRIYT AALNDRDQGGGSAGHPASRNKKILNKK KLKRKQKSKSVKTRSKSENLENTVIIPD IKLHSNPSAFNIYCNVRHCVLEWQKKEIS LAAASKNSVQSGESDSDEEEESKEPIKL PKIIEVGLCEVFELIKETRFHPSLCLRSL QALLNVLQGGQPEVLQSEPPEVLESFLQ LLEITVRSTGMNDSTGQSLTALSCACL
2803	10854	A	3738	373	662	CRKNSCYQAQNFNLRIPFSTTKLINLFHF *NDSQKST*/SDSHLARSSQFCSLN*NY*I *TAKSHDVVCTRQHFPSSLSESYIWHVKE KKYNPTAAAI
2804	10855	A	3739	29	658	LSVASLSFLPNASAEDTMSRLSRLLWA ATCLGVLCVLSADKNTTQHPNVTTLAPI SNVTSAPVTSPLV\TTPAPETCEGRNSCV SCFNVSVVNTT\CFW\IDCKDESYCSHNS TVSD\ACQVGNTTDFCSVST\ATPVPTANS TAKTHSSSPPLLQLPRQLLHQGTTNNTV NSVTSQPVVKSTFDAASFIGGIVLVLEIRC HTRNYIPDLKK
2805	10856	A	374	562	766	GKSISRYPLYPFVIFYFYFLETESCSAQA GVQWRNLGSLQSPSG\SSNSPASAS*VA ETTGERHHAQ
2806	10857	A	3740	1	183	KKGLSPEQDIKFSGHVSWVGKTSMEVK MQMFQPAFVNPLIPESPEEEELFRQGE TLICL

2807	10858	A	3741	185	1548	LNQGPQNPKKQGNFHIHETSSSIHANHV RDKLREIV\KASTNWRDHVKAMEERKLL HSFLAKSQDGLPPRRMKDSYIEVLLPLGS EPELREKYLTQNTVRFGRILEDLSLGR FLFCYMHNKIHSAKMSPLSIVTALVDKID MCKKSLSPEQDIKPSGHVSWVGKTSME VKMQMFQLHGDEFCPVLDATFVMVAR DSENKGPAFVNPLIPESPEEEELFRQGE NKGRRIAFSSTSL\KMAPSAEERTTIHE MFLSTLDPKTISFRSRVLPNSGVS GWEN SKLKEFWEI\CAHPSGSRNIFNRILVGLM RKAYELAWATACS\FG\GSRPFVGA VDD\ IMFQNPVEVG\SLFLSSQVCFTQNNYI QVRVH\SEVALPLQEKPAIQHPMSFHFH RFHVGGKESAPL\VFPPKTYGESPCCTLD G\QRAFPPTMSGP\ATLEKGPTLVEPLRTP TIC
2808	10859	A	3743	2	286	TALQRHSEPSKLTFFVGELAHGRFS AK/M GTLALGVYHGLPASHMELAQELMETCY QMNRMQMETGLSPEIVHFNLYPQGRRDV EVKPADRHNLRLP
2809	10860	A	3744	1	287	
2810	10861	A	3745	1	339	RPLLAFRLEEEQKMRPEIAGLKPANPPVL PAPQKADTDPENLPGAMG*PSGQPRVQL CPGS*SLRCPQSKGLEGLP*LQRPEAPGL ALVFTSWTQGS SWPPRRGLGGLDGKSV
2811	10862	A	3746	2	991	
2812	10863	A	3747	1	2296	FRVDGAAMAACEGRRSGALGSSQSDFL TPPVGGAPWAVATTVMYPPPPPPHRD FISVTLSEGESYDNSKSWRRRSCWKKWK QLSRLQRNMILFLLAFLFCGLLFYINLA DHWKALAFRLEEEQKMRPEFAGLKPAN PPVLPAPQKADTDPENLPEISSQKTQRHI QRGPPHLQIRPPSQ\DLKDGTOEEATKRQ EAPVDPRPEGDP\QRTVISWRGAVIEPEQ GTLPSSRAEVPTKPLPPARTOQTPVH LNYRQKGVIDVLLHAWKGYR\KFAWGH DDLKPVSRSFSEWFGLGLTIDALDTMW ILGLRKEFEARKWVSKKLHFEKDVVDN LFESTIRILGGLLSAYHLSGDSLFLRKA DFGNRLMPAFRTPSKIPYSDVNIGTGVA HPPRWTS DSTVAEVTSIQLEFRELSRLTG DKKFQEA VEKVTQHIHGLSGKKDGLVP LFHQLPTVGLFTHLGVFTLGARADSYE YLLKQWIQGGKQETQLLEDYVEAIEGVR THLLRHSEPSKLTFFVGELAHGRFS AKMD HLVCFLPGTLALGVYHGLPASHMELAQE LMETCYQMNRMQMETGLSPEIVHFNLYP QPGRRDVEVKPADRHNLRLPETVESLFY LYRVTGDRKYQDWGWEILQSFSRFRV PSGGYSSINNVDQPKPEPRDKMESFFL GETLKYLFLFSDDPNLLSLDAYVFNTE AHPLPIWTPGLGWMAAGVGTSGGQRHL AGSVAFSKGPRRHRQPPSGPGSELGLGF LLVSALIRTP
2813	10864	A	375	23	483	NGVLLSSRLKCSGAISAHCSLCLLGSSNS PTSASQVAGITGAHHHTWANFCIYFF*V EMGFHHVG\QAGLELLTSDDPASALASQS AGITG/GEHLRLAVTYLNKHERGSFLSS CLPSAWWKWLCLCSFVVPKCLALCHF KHYGRRKQVGHTSK
2814	10865	C	3753	150	584	MHPSCCPCICKPFSTLVKSHVTASASSVP DSTCLRRGQQSCEVVLWQDRVSFQARE LKAVINSAVQTSSCFIRHLPRSVSSAIAEG VTSVAIISSSSPSAGGALLWSAPFFETQQT AVAPPASLET LGFHLQPHLLHTAGSFG**
2815	10866	A	3754	292	483	

2816	10867	A	3755	84	316	GGKLNILKYLFYTSY*FLSFPWHFLAAS RAQQGEV MRLACRLDPKTSFQMAGEW LKYQLSTFLD VAGSVNWKFFSLL
2817	10868	A	3756	423	1186	
2818	10869	A	3757	222	435	PCFLALAVCCVSKKGADHSSAPPADGD DEEMMATEVTPSAMAELTDLGKCLMKH EDVCTALLITAFHSLAW
2819	10870	A	3758	1	936	MAEPFTKALDMLDAEKSAILGLPQPLLE LNDSPVFKTVLERMQRFFSTLYEN/CECP WVGLFI*CTEHYEALVSPILGPLFTYLHC GEDEAADENPESQEMLEEQLVRLTRE VMDLITVCCVSKKGADHSSAPPADGDD EEMMATEVTPSAMAELTDLGKCLMKHE VLSGTLADAVTWLFTSVLKGQLQMHGQ HDGCMASLVHLAFQIYEALRPRYLEIRA VMEQIPEIQKDSLDQFDCKLLNPSLQKV ADKRRKDQFKRLIAGCIGKPLGEQFRKE VHIKNLPSLFKKTCPMLETEVLDNDGGG LATIFEP
2820	10871	A	3759	30	3498	VAIVRHFGQLQLEHVVKFRWNGMSRLEK VYLKNSVMELIANGTLNILEEENHIKDAL SRIVVEMIKREWPHWPDMLIELDTLISK QGETQTELVMFILLRLAEDVVTFTLPPQ RRRDIQQTLTQNMERIFSLLNTLQENVN KYQQVKTDTSQESKAQANCRVGVAAALN TLAGYIDWVSMHITAENCKLEILCLLL NEQELQLGAAECLLIAVSRKGKLEDRKP LMVLFQDVAMHYILSAAQTADGGGLVE K
2821	10872	A	376	129	365	NYYYTHLYANIFDTLEERGKFL/DKQNLISK LEQTGKAQGFYDLLKKN**L*SLTKK ASGRGPLLGNSFQF*RKKMTPTL
2822	10873	A	3760	1	168	PLKRSDGCNDGRPTRPPTRPDITTVFTSNL KQTRMVHLTPVERVCRCYCPVG\QGKPG
2823	10874	A	3765	1	234	
2824	10875	A	3766	1	1697	LRAAGGGRTMPSFDEALQRVGEFGRFQ RRVFLLLCLTGVTFALFVGVVFLGTQP DHYWCRGPSAAALAEFCGWSPEEWN RTAPASRGPEPPERRGRCQRYLLEAAND SASATSALSCADPLAAPPNRSAPLVPCRG GWRYAQAHSTIVSEFDLVCVNAWMLDL TQAILNLGFLTGAFTLGAAADRYGRIVY LLSCLGVGVTVGVVAFAPNFPVVFIRFL QGVFASLTWMTCYVIVTEIVGSKQRRIV GIVIQMFFTLGIILPGIAYFIPNWQGIOLA ITLPSFLFLLYYWEVPESPRWLITRKKGD KALQILRRIAKCNGKYLSSNYSEITVDE EASNPSFLDLVTRPQMRKCTLILMFAWF TSVVYQGLVMRLGIIGGNLYIDFFISGV VELPGALLILLTIERLGRRLPFAASNIVAG VACLVTAFLEPIAWLRTTVATLGRLGIT MAFEIVYLVNSELYPTTLRNFGVSLCSSL CDFGGIAPFLFLRLAAVWLEPLIIFGILA SICGGLVMLLPETKGIALPETVDDVEKLG SPHSCKCGRNKKTPVSRSHL
2825	10876	A	3767	103	370	IGVPGAISSSASGRLAVALGTILSFSFSISE FFRFWLRVVGGQVDLSGDVVYCTYPLFIF LSALSLEDYSPETKVFK*LKTKHDSHMT GN

2826	10877	A	3768	97	1639	CPLQWICAINNISRQIYLTNDPEAVAAILK NQ TALQAGTPITSFGKKQESSCPSQNLK NSEMENENDKIVPKATASLPEAEELIAPG TPIQFDIVLPATEFLDQNRGSRRTNPFGE TEDESFEAEDQQQEVNEILSGKCCLPD SLLQQMFIVRFLGSMVKTSTTEVIYE AMRQVLAARAIHNIFRMTESHLMTVSQS LRAPGGRGCGRSFSRLKCCLPALKRA AGLPAQRLSSAKGQTASSESTLVVDP GETPPSRNRQTPHTGEFQLASGHQHQR KVDKSTKMRKKQHRKAENSKNQNASPP PKDHNSLPAREQNWTENEFEETERGFR SDRENGTKLENTLQDIIQENFHNLARQA NIQIQEIQRTPQRYSSRRATPRHIIIRFTKV EMKEKMLRAAREKGQVVTHKGKSIRLT ADLSAETLQVRREWGPIFNILKEKNFQP RISYPAKLSFISKGEIKFVTDKQMLKD VV TTRPALKELLKEALNMERKNQYQPLQK HTKM
2827	10878	A	3769	159	277	
2828	10879	A	377	67	224	
2829	10880	A	3770	1	474	HPPPTMALKRIHKELNDLARDPPAQCSA GPVGDDMFHWQA\TIMGPNDGPL/YQG GVFFLTIPFPQITPFKP\PKVAFTTRIYHP\ NINHNGSICLDILRSQWSPALTISKVLLS\ ICSLLCDPNPDDPLVPEIARIYKT\DREKY NRIAR\EW\TQKYAM
2830	10881	A	3771	153	291	
2831	10882	A	3772	1	336	
2832	10883	A	3773	1	2336	MVRSWLTATSASQVQAILLPQPPKTQLN FTVAIDFTASNGETRMSEKVGGNPLQPT SLHYMSPYQLSAYAMALKAVGEIJDY DSDKLPAYGFGAKLPPEGRISHQFPLNN NDEDPNCAGIEGVLESYFQSLRTVQLYG PTYFAPVINQVASNSWSSVTLGTDSEPA VEVPQYVGIRLLVEGFTIKKPMAMCHRR MGVRPAVPLLTQRGSGEGKDSGTPTHSL HTKAQLPSPHVLRHQGVLRQRHSHKL GTKALSTTGKALRTLPTAKVFISLP*GPW HRR*AGRDSCSAGR*AAEDSLRLFHSSV SHHWKP*SQWLL*SSAVSWEAEAGELLE PGRRLQ
2833	10884	A	3774	1015	1292	AGRAWWRMPYNPOHFGRPRRVDHLRS GVQDQPGQVHGETP\SLKGPKIGAWWW RTPVIPATWEAEP\GELLEPRRQLQVSQ DRTTALQPGQE
2834	10885	A	3775	183	511	SQHFGRRLRWADCLRSIQDQPGQHGETL SLLKIQ\KLARSGGTCLQSLLARLRQEN HFSLGEGECSEPRSGHCTPAWARV/GHS VLKTNEQKNSSTLHTKSHWIFQFPGH
2835	10886	A	3779	60	361	
2836	10887	A	378	436	829	NLREFPWAPCPVLHYKFSSKLN\LWIPVT L*GGSHILPSATLKKQIYGE\KKLKAADC DLQITNAQTKEEYTDNALIPKNSSVIVR RIPIGGVKSTSKTYVISRTEPAMATTKAV CKNTISHFFYTLPL
2837	10888	A	3780	2	616	ERTEKSDRAVRSGAPHADGSREAVFCAC IWRWRVGGGRSCCTGRPSWGASSAVT RGPHVTRSCRATQPSLQSSLASGYQLPA ALSSARSAFGPGKSGAGSATAKCSSGAP RGENPEEKETARIGPGKTKKMEQPYAR MEEEDR/HLWGGGEGPPSPARKIERGKA RPTCPLNFRMGYPNRPESMDGDGWKM EMDMGKYSMGR

2838	10889	A	3781	2	888	RQRQRPRAGPAGRTGGQKAPGARVPPG PAMEGASFGAGRAGAALDPVSFARRPQ TLLRVASWVFSIAVFGPIVNEGYVNTDS GPELRCVFNGNAGACRFGVALGLGAFL ACAAFLLLDVRFQQISSVRDRRAVLLD LGFSGLWSFLWFVGFCLTNQWQRTAP GPFVTHAGDAARAAIAFNFFSILSWVAL TVKALQRFRLGTDMSLFATEQLSTGASQ AYPGYPVGSVEGTETQSPPTETLDT PKGYQVPAYYRLAGTDQGSKATPPTQA PGSPGPPLGPSSSVPRTE
2839	10890	A	3782	1	1944	MADRTKELESIPDSRNRGSIMGNSRDA DFGTTIKQDFRLLGQTSVDRLLQLSQGQ AVKGNQLLPVSLVKKRTTLAPNTQTASP RALADSLMQLARQVSRLESGQDFADFG TTIKQDFRLLGQTSVDRLLQLSQGQAVK GNQLLPVSLVKKRTTLAPNTQTASPRAL ADSLMQLARQVSRLESGQWTLVPNWNT TQPLSGDILLIYKGFCRFRNHHQTGFSLA GANQRGPLAATLSGPGGEGQSAVARLT GEKKN
2840	10891	A	3783	1	578	MGVEGRYPVLSLSSDLEWRPDRCDASE VQRDPRAGSAPLAEDVQVDPKDSHSS ERFLEQSHSSMERAFEADYGRSCDYKVG SPSYLDKLLWRDNKPHHYSEPKLILDLS HWKQAAGAPPTATGLADTGAREDEPAS LFLENPQGVKSTQGAQNTPARPPTPSA AWLPRPPPGPTLADSCSVTKWGQV
2841	10892	A	3784	861	2636	GARGRPLAETWPFLTAPVLPGLQITEPT MAEKGDCIASVYGYDLGGRFVDFQPLG FGVNGLVLSAVDSRACRKVAVKKIALS DARSMKHALREIKIIRRLDHDNIVKVYE VLGPKGTDLQGELFKFSVAYIVQEYMET DLARLLEQGTAEHAKLFMYQLLRGL KYIHSANVLHRDLKPANIFISTEDLVKI GDFGLAKESLNQ/HYSVHKGYLSEGLVT KWYRSRLLSPNNYTKAIDMWAAGCIL AEMLTGRMLFAGAHELEQMQLILETIPVI REEDKDELLRVMPSFVSSTWEVKRPLRK LLPEVNSEAIKFLEKILTFNPMDRLTAE GLQHPYMSPYSCPEDEPTSQHPFRIE DDIVLMAANQSQLSNWDTCCSRYPVSL SSDLEWRPDRCDASEVQRDPRAGSAPL AENVQKDPKDSHSSSERFLEQSHSSME RAFEADYGRSCDYKVGSPSYLDKLLWR DNKPHHYSEPKLILDLSHWKQAAGAPPT ATGLADTGAREDEPASLFLMAQWVKS TQGAQSTP/TPPTPSAACLRPP/PPGP GGRR/RQPPVRPGRVHLRPEALHQARG PAGQ
2842	10893	A	3788	1	167	
2843	10894	A	3789	1	1685	NTIHDTEIYLSRCWVCCAVSAIARARA ALPNIIVGEKGGAGSARSSPRRAAECA QIPQPRRSPAVQAEPARRSRFPFTLQGA FSSAIIHAGIGGTSAAYYLRQKFGKDVKI DLFEREEVGGRLATMMVQGQYEAGGS VIHPLNLHMKRFVKDLGLSAVQASGGL LGIYNGETL/VFEESNWFINVIKLVWRY GFQSLRMHMMWVEDVDKFMRIYRYQS HDYAFSSVEKLLHALGGDDLGLMNLRT LLET/LQKPGCSEKLLNEMIGPVMRVNY GQSTDINAFVGAGSLSCSDSGLWAVEGG NKLVCSGLLQASKSNLISGSMYIEEKT KTKYTGNPTKMYEVVYQIGTETRSDFY DIVLVATPLNRKMSNITFLNFDPPNEEF HQYYQHIVTTLVKGELNTSIFSSRPIDKF GLNTVLTDDNSDLFINSIGIVPSVREKEDP EPSTDGTYVWKIFSQETLTKAQILKLFLS YDYAVKKPWLAYPHYK/PPPEKCPLLSF SHDPLVVALNGIECAASAMEMSAIAV

						SHDRLYYLNGIECAASAMEMSAIAAH NAALLAYHRWNGHTDMIDQADGLYEKL KTEL
2844	10895	A	379	74	378	GCTKDSNIYFIKEHFQSVNNHIKRLISFL IRVM*LKPQQVTINTPIRMAKI*KAENSK CWQECGAAVTLMH***V*LPLKSWHFL KLSTCLFYDLAIPL
2845	10896	A	3790	52	264	QSFAPGPPFPFPPWGGRAGGFPGPMG/ PPPGPPGGTSSSSKIPKFGPRGGPPFPPL PKRVRPGDFFYP
2846	10897	A	3791	627	1524	SHGENCKCPSTGDYRKLIYHLKGCQGLR NKGSSPFTSIVSAAKVCGAASESPSVKSL CLLVADQDFSFKAGQWVDFIPGVSUVG GFSICSSPRLLEQERVIELAVKYTNHPPA LWVHNTCTLDCEVAVRVGGEFFDQP ADASRNLVLIAGGVGINPLLSILRHAAD LLREQANKRNGYEIGTIKTILQCKKYPAE LLFKKNILDVNEFPEKIACSLHVTKTDY TNPMRNSKPYITEGRITEKEIRDHISKETL FYICGPPMTDFFSKQLENNHVPKEHICF EEVVVGGRQORQKK
2847	10898	A	3792	331	756	WKRSCLKYLWLLRSHNSHPSSSLTPSLSPS AEAEEDGDLQCLCVKTTSQVRPRHITS EVIKAGPHCPTAQL/IVSPRTASVSAPAPC LLCPSLPLLMFPANPRTESHVSSLFPARA TLKNGRKICLDLQALLYKKIIEHLES
2848	10899	A	3793	3	402	HEETQPEFPALSTEILLEALPQHELRSRV LR/AQRPGLLFLGLLLPLVVAFRRAEA EEDGDLQCLCVKTTSQVRPRHIHQGR* SKAGP\HCPTCPT**PR*KNGRKIWLGTW QAPLLQGK*FKETFWESLAN
2849	10900	A	3794	2	146	
2850	10901	A	3795	3	1034	SEFPARTPRRCPRSPGPAMGLTVSALFS RIFGKKQMPILMVGLDAAGK/TSHILYKL KLGEIVTTIPTIGFNVETVEYKNICFTVW DVGGQ\DKIRPLWRHYFQNTQGLIFVVD SND\RRVQESA\DELQKMLQEDELDA VLLVFS\NKQDMPNAMP\VSELT\DKLGL QHLS\RTWYV\QAHLLPTQGTGFVTMV LDWL\SHELFKALNQPWGRPLDARKSRC VQSPTMSQNSPTPRGKCPFP\TFSLPHSP QASASAPCSCLHVLSVVGAVEPLLSGHR GVPLFLPAGTYGRGFAGPRPPSSRGGAGI WVSFFFFCFGCTLGGQVGRGKVRAFGW CYNVALDLE
2851	10902	A	3796	1536	1838	GLPQQTLKRIQQVLIKCCLAFLYLFLLLL LRWSLALLPILECSGVISAHCNLRPLGLG DSLASASRVAGM\TTGTCHHAQLFCIFS RDGVSVLARTVWIS

2852	10903	A	3797	2	740	GRVGQSTSKVPKEGLLSLHLLCSTAHIYQ KTAEMKSIYFVAGLFVMLVQGSWQORS QDTEVEKSRFSASQADPLSDPDQMNED KRHSQGTFTSDYSKYLDSRRAQDFLQ WLMNTRNRNRIAKRHDEFERHAEFTF TSDVSSYLEGQAAKEFIAWLKGRGR DFPGEGRPLLKNLAGRHA\DGFSDEM TILDNLPA\DFINWL\RTKI\TDREITYIT YSEIIFTNITLLAHVGCLEMFKSW
2853	10904	C	3798	204	272	
2854	10905	A	3799	1	350	
2855	10906	A	38	3	203	HASDKMADKEKKKKESILDLSKYIDKTI RVKFQGGREGE\GLPLSVPL*KFQINPA TEMMRTHAEA
2856	10907	B	380	1	483	MGQARWLTPVIPALWEAEAGGSRGPSA AGLLEFARGPLQTLFAWVSAVAEQRI FVNRECCCLIVPLEVLSQRSTRPCEVSVC PYWENAFQLGCSGTVTVGSTTVTLAECL KWLTTFQLVSIGLAAVAMDVLNTGDVY WLLNVAEWNFSVNIPNDSLS*
2857	10908	A	3800	1	397	QRPI*PTKPIGQVRVSKGHQPTRH\DTQF LAAHETISRLVGFSAQV\QYLDLIK\NDP SKLFNEERLIDKTKVTYKWLPESESLFL ASHASGHLYLYNVSHPCASAPPQYSLK QGEFVSVAAYNDLFL
2858	10909	A	3801	1	2066	MAAGGAEGGSGPGAAMGDCAEIKSQFR TREGFYKLLPGDGAARRSGPASAQTPVP PQPPQPPGPASASGPGAAGPASSPPAG PGPGPALPAVRLSLVRLGEPDSAGAGEP PATPAGLGSGGDRVCN\LGRELYFYPGC CRRGSQRWHTPLTPFLPPLKSIDLNKPID KRIYKGTQPTCHDFNQFTAATETISLLVG FSAGQVQYLDLIK\DTSKLFNEERLIDKT KVTYKWLPESESLFLASHSGHLYLYN VSHPCASAPPQYSLKQAWGFSFYAAK SKAPRNPLAKWAVGEGPLNEFAFSPDGR HLACVSQDGCLRVFHFDSMLLRGLMKS YFGGLLCVCWSPDGRYVVTGGEDDLVT VWSFTEGRVVARHGHSWVNAVAFD SLYTTAEAAATAAGADGERSGEEEEEE PEAAGTGSAGGAPLSPLPKAGSITYRFGS AGQDTQFCLWDLTEDVLYPHPLARTRT LPGTPTGTPPAASSSRGGEPPGPPLPRSL RSNSLPHPAGGGKAGGPGVAAEPGTPFS IGRFATLTQERRDRGAKEKHRYHSLG NISRGSGSGSGGKPSGPVPRSLDPA KVLGTALCPRIHEVPLLEPLVCKKIAQER LTVLLFLEDCHITACQEGLECTWPRPGKA FTDEETEAQTGEGSWPRSPSKSVVEGISS QPGNSPSGTVV
2859	10910	A	3802	1	1155	
2860	10911	A	3803	285	1444	LLISPGPRLGAPSFPMAGHLASDFAFSPPP GGGGDGPGGPEPGWVDPRTWLSF\QRP GGPGIGPGVGPGEVWGIPPCPPPYEFC GGMAYCGPQVGVLVPQGGLETSSQPEG EAGVGVESNS\DGASPE\CTVTPGA\VKL EKEKLEQNPEK\SDIKALQKELEQFAKL VKQKRITLGYTQADVGLTLGVLFQKVS OTTICRFEALQLSFKNMCKLRPLLQKWV EEADNNENLQEICKAETLVQARKRKRTS IENRVRGNLENLFLQCPETPHWQQ\SHIA QQLGLKKHVVRVVRVWFCNRRQKKG\ RSSDFA\QREDFEAAGSPF\SGGPVSLFP VPPGPHFGTPGYGSPHFTALYSSVPFPE GEAFPPVSVTILG\SPMHSN
2861	10912	A	3806	3	225	GQTSQHHAVALRTTQHHWALGQHRVAL HTVEYYLALKRKEMDTGCKWMELEYI VLSGISQSQEDMHCMIPFVSGP

2862	10913	A	3807	874	1444	CQARPMPLRAFNPVSSFRWARGMTIVA ALMTVFFIMQLVGQVPAALWVIFGEDRF RWSATMIGLSLALFGILHALAQAFVTGP ATKRFGEKQAIHAGMGPNALGYVLLAFA TRGWMAFPIMILLASGGIGMPALQAMW LAE*ITDTRANVKRLLLOQNVCDLSNNMN GLRFPFCVFKSCGTPTSVLTKRWH
2863	10914	B	3808	1	1917	MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIHAGGRRAGRLAGVPTRGWM AFPIMILLASGASGCRVAGHAVQAALRA QGLLKEAEHVESQSAETVLTPEDECQLLG YLDKGKRKRKEKAGSLQWAYMAIARL GGFMDSKRTGIASWGALCAGAAVLFVK TDLGALNELQDEAARLSWLATTGVPC AAVLDVVTEAGRDWLLGEVPGQDILLS SHLAPAEKVSIMADAMRRLHTLDPATCP FDHQAKHRIERARTRMEAGLKDLMRD QDLIKRQDEDRSHDEQDDARRSPAAWW RAYSAIAATTDNSGRPVLFVKTDLSGAL NELQDEAARLSWLATTGVPCAAVLDVV TEAGRDWLLGEVPGQDILLSHAPAEK VSIMADAMRRLHTLDPATCPFDHQAKH RIERARTRMEAGLVDQDDLDEEHQGLA PAELFARLKARMPDGEDLVVTHGDAAC RISWWKMAAFDSSTVAGWDIALATRDI AEELGGEWADRFLVLYVLLSGTLGFEM TDQATPNLPSRDFDSTAIFYERLGFIVF RDAGWMILQRGDLMEFFAHPGLDPLA SWFSCCLRLDDLAEFYRQCKSVGIQETS SGYPRIHAPELQEWGGTMAALVRIFVKE PYFCGVT*
2864	10915	A	3809	1057	1905	
2865	10916	B	381	119	955	MVSISRPRDPPASASQSAGITGPALGAEG ERAFHRHRVMIVTEGAPGGLSSGHLRDA MDSEAGTDDGCASHVRVVRDLKPSNI LYVDESIGNPECLRICDFGFAKQLRAENG LLMTPCYTANFVAPEVLKRQGYDEGCDI WSLGILLYTMLAGYTPFANGPSDTPEEIL TRIGSGKFTLSGGNWNVTSETAKDLVSK MLHVDPHQRLTAKQVLQHPWVTQKDK LPQSQLSHQDLQLVKGAMAATYSALNS SKPTPQLKPIESSILAQRRVRKLPSTTL*
2866	10917	A	3810	1	2928	
2867	10918	A	3811	630	1159	GAPWGQVPAALWVIFGEDRFRWSATMI GLSLAVFGILHALAQAFVTGPATKRFGE KQAIHAGMAADALGYVLLAFATRGWMA FPIMILLASGGIGMPALQAMLSRQVDDD HQGQLQGSALAALTSLSIIGPLIVTAIYAA SASTWNGLAWIVGAALYLVCLPALRRG AWSRATST
2868	10919	A	3812	1	3525	
2869	10920	A	3813	1	1606	MLMKAHKGVLGEQEKVPRRLMKVLKG VPGEQEKVLWEAREEGVSSRWTSMPMG CEQRVWMGDEQAMEPLGLADGKLWRT FMGAADAERKEGRGMKVAPAPAVVKK QEAKKVVNPLFEKRPKNFGVGQDIQPKR DLTRFVKWPRYIKLQHQRFLYKRLKVP PAINQFTQALDRQTATQLELAHKYRPE TKQEKQRLLAQAEKTAGKGDISTKRL PVLQAGVNWEDKSALAKLVEGIRTNYN ERYNEIHHHWWGNVLPESVARIKLLK ADGSLRLDFTVCKKAWIVSHPVSRKLP QQRQNRKKRQEVQAWGSGPCLSLVV GSEPATGGSSCSETSGFGKSCKVKETNP QPMATPTLEQGEAVAAHAEIPPACSHG QVPAALWVIFGEDRFRWSATMIGLSLAV FGILHALAQAFVTGPATKRFGEKQAIHAG MAADALGYVLLAFATRGWMAFPIMILL ASGGIGMPALQAMLSRQLTSIIGPLIVTA

						IYAASASTWNGLA WIVGAALYL VCLPAL RRGAWSRATST
2870	10921	A	3814	1701	1904	
2871	10922	A	3815	1	427	MAKMKNQIIPSVGEKLEQQKPSYDARAF VTGPATKRFGEKQAIAGMATDALGYVL LAFATRGWMAFPIMILLASGGIGMPALQ AML SRQLTSIIGPLIVTAIYAASASTWNG LA WIVGAALYL VCLPALRRGAWSRATS T
2872	10923	A	3816	1	1629	
2873	10924	A	3817	1	1013	MMGLRNSYDVKERLKHQVRGGKAPKA VNSGKLLPFPRLKELAGVEGMGNCYL RTQPGTRMQWSPMKLSVELRAGQRSLL RESKGKEIPEPRCAAVGGKEPEAKPPKV PRPMPLRAFNPVSSFRWARGMTIVAAL MTVFFIMQLVGQVPAALWVIFGEDRFR WSATMIGLSLAVFGILHALAQAFVTGPA TKRFGEKQAIAGMAADALGYVLLAFAT RGWMAFPIMILLASGGIGMPALQAMLSR QVDDDHQGGQLQGLAALTSLSIIGPLIV TAIYAASASTWNGLAWI*PGMFIISNPY REHPLSFHRYHYPHEQKSPLHGGISDQT GKNRP
2874	10925	A	3818	1	2634	
2875	10926	A	3819	1328	2536	
2876	10927	A	382	1	662	LGSCVTQTGVQWCGHSSLRPQTQAQAI LLPCLSNCWYKHEPLHLAYVTQFCFLS FFFGGGGWSLALSPMLECGGVILAQCKL RLLGFTPFSCSLPSSWDHRHPPCLANF LNF/SVETGFHFLAQDGLDLTS/S/PPAS A/FPKCWDYRR/DHRAQPM*CNSDVNSL MLPQMPQVK/AHQSPIGCPFRHTCRLG CPQTTCTSHQLAANLEVPTMPSSSITH
2877	10928	A	3820	1	1594	MSAAPCSTVPSPIDHPRAEECGHTARDW QVAPPAAQSHDDDEEEDEKEEEEEEE ELLAGSPYSPTVPCFPLECPCLENGSRQ KQDKHTPGFKHKFQHAFSSFLATITHS FWVAEHSRLREGKQGAQISPHLQVGPGL VWQGYLWQNREAGSSRDSHLNMPCGM AAGHSHSGTLFSDQGLWEQCQLLKSTSV FARCHPLVDPEPFVALCEKTLCECAGGL ECACPALLEYARTCAQEGMVLYGWDH SACSPVCPAGMEYRQCVSPCARTCQSLH INEMCQERCVDGCSCPEGQLDEGLCVE STECPCVHSGKRYPPGTSLSRDCNTCICR NSQWICSNEECPDREGHNSRQREVALSA QVGCNHVTPALVSGQVPAALWVIFGED RFRWSATMIGLSLAVFGILHALAQAFVT GPATKRFGEKQAIAGMAADALGYVLLA FATRGWMAFPIMILLASGGIGMPALQAM LSRQLTSIIGPLIVTAIYAASASTWNGLA WIVGAALYL VCLPALRRGAWSRATST

2878	10929	A	3821	3	995	TSPTATGPALVCYRASLVALREEDTRSQ EYVPFRGNRDFAHVKKMGGLGLLAMD VPEELGGAGLDYLAIAIMEEISRGCAS TGVIMSVNNSLYLGPILKFGSKEQKQAW VTPFTSGDKIGCFALSGTRAFNPVSSFRW ARGMTIVAALMTVFFIMQLVGQVPAAL WVIFGEDRFRWSATMIGLSLAVFGILHA LAQAFVTGPATKRFGKQAIAGMAADA LGYVLLAFATRGMWMAFPIMILLASGGIG MPALQAMLSRQVDDHQQQLQGSLAA LTSLSIIGPLIVTAIYAASASTWNLAWI VGAALYLVCLPALRRGAWSRATST
2879	10930	A	3822	1	619	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFPIMILLASGGIGMPALQAMLSRQVD DDHQQQLQGSLAALTSLTSIIGPLIVTAIY AASASTWNLAWIVGAALYLVCLPALR RGAWSRATST
2880	10931	A	3823	1	565	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGMW MAFPIMILLASGGIGMPALQAMLSRQVLT SIIGPLIVTAIYAASASTWNLAWIVGAA LYLVCLPALRRGAWSRATST
2881	10932	A	3824	1	934	MTMWVLHCAFTYFVSAWSKHGYAHAV TAKILYAGRIVAGITGATGAVAGAYIADI TDGEDRARHFGLMSACFGVGMVAGPV AGGLGAIISLHAPFLAAAVLNGLNLLG CFLMQESHKGERRPMPLRAFNPVSSFRW ARGMTIVAALMTVFFIMQLVGQVPAAL WVIFGEDRFRWSATMIGLSLAVFGILHA LAQAFVTGPATKRFGKQAIAGMAADA LGYVLLAFATRGMWMAFPIMILLASGGIG MPALQAMLSRQVLTSLTSIIGPLIVTAIYAASA STWNLAWIVGAALYLVCLPALRRGAW SRATST
2882	10933	A	3825	657	7035	LRTCWHSDCQNTAADHSAQSGRRHRK PCNRCAPGSQNWAVPLLPDISCRTGCAV RKDRLIAGPIQ*N/LKTAVVGRQPYLTKL CLMLGCLGRMRWRCSTGWLRRLTSSVQ CS*RISNRMSCTGSMLTTWL*MKLQQVN GLGQGLIQSAGKDCDVQGLEHDMEEIN ARWNTLNKKVAQRIQLQEALLHCGKF QDALEPLLSWLADTEELIANQKPPSAEY KVVKAIQEQKLLQRLDDRKATVDML QAEGR

2883	10934	A	3826	140	2298	LFPRLLSFLTTPPHCSFSICFVICSRTLILK GSSLITG/CTQFRLSETKEITNPYAMRLYE SLCQYRKPDGSGIVSLKIDWIIERYQLPQ SYQRMPDFLPLPAGALSLISKVTDNRAN DSMEQGAETSQGALGTLANVVTSLANL SESLNNGDTSEIQPEDQSASEITRAFDTL AKALNTDSSSSPSLADGIDTSGGGSIHVI SRDQSTPIIEVEGPLLSDTHVTFKSIREDR NGRSQKTVHTEGDMNMNIKKIVKQATV LTFTTALLAGGATQAFAKENNQKAYKE TYGVSHITRHDMLQIPKQQQNEKYQVPQ FDQSTIKNIESAKGLDVWDSWPLQNADG TVAEYNGYHVVFALAGSPKDADDTSIY MFYQKVGDNSIDSWKNAGR VFKDS DKF DANDPILKDQTQEWSGSATFTSDGKIRL FYTDYSGKHYGKQSLTTAQVNVSKSDD TLKINGVEDHKTIFDGDGKTYQNVQQFI DEGNYTSGDNHTLRDPHYVEDKGHKYL VFEANTGTENGYQGEESLFNKAYYGGG TNFFRKESQKLQQSACKRDAELANGAL GIELNNDYTLKKVMKPLITSNTVTDEIE RANVFKMNGKWYLFDTDSRGSKMTIDGI NSNDIYMLGYVSNLTGPYKPLNKTGLV LQMGLDPNDVTFTYSHFAVPQAKGNV VITSYMTNRGFFEDKKA TFAPSFLMNIK GNKTSVVKNSILEQQQLTVN
2884	10935	A	3827	1	2604	
2885	10936	C	3828	1	2076	MNMNIKKIVKQATVLTFTTALLAGGAT QAFAKENNQKAYKETTYGVSHITRHDML QIPKQQQNEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQNADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKVGDNSIDS WKNAGR VFKDS DKFDANDPILKDQTQE WSGSATFTSDGKIRLFYTDYSGKHYGKQ SLTTAQSIREDRNGRSQKTVHTERDMIM NIKKIVKQATVLTFTTALLAGGATHAFA KENNQKAYKETTYGVSHITRHDMLQIPKQ QQNEKYQVPQFDQSTIKNIESAKGLDVW DSWPLQNADGTVAEYNGYHVVFALAGS PKDADDTSIYMFYQKVGDNSIDSWKNA GRVFKDS DKFDANDPILKDQTQEWSGS ATFTSDGKIRLFYTDYSGKHYGKQSLTT AQVNVSKSDDTLKINGVEDHKTIFDGDG KTYQNVQQFIDEGNYTSGDNHTLRDPH YVEDKGHKYL VFEANTGTENGYQGEES LFNKAYYGGGTNFFRKESQKLQQSACK RDAELANGALGIELNNDYTLKKVMKPL ITSNTVTDEIERANVFKMNGKWYLFDTDS RGSKMTIDGINSNDIYMLGYVSNLTGP YKPLNKTGLVLQMGLDPNDVTFTYSHF AVPQAKGNV VITSYMTNRGFFEDKKA TFAPSFLMNIKGNKTSVVKNSILEQQQLT VN*
2886	10937	A	3829	1	3603	
2887	10938	A	383	110	784	AAAAASKVLM*TGGAAPQEQP*TGGVQ A*APGSVA/AEGASVEGPGFGDTAPAHQ GLSPTRSHGQGGAGRASAHSRDPPGGTG GWGFLKCGPGALCPERGKDGASASVPR GPYAEAEKGGWALRGLGGVAAPGPPSR AGQAPSGLHTGPNARPAPWPIPGQGGGL RRDQAG*VSSWTGSTEPGAHTAHRAPG HGGKGGSPQQPHPGPGQIPTTHTRMHS CRITAA

2888	10939	A	3830	2455	3151	DRRCPIFCLLPFGIRFILLFGSSSLQRGPFIL FFFFLIFFFPFIFLLSILGSFFFFLLSPVLLL HHFFLSLFPACLLHLLLLQLVGAQLG RCLHA/SSPTWCRGRGR/VLAGSRGPGAE TEGPWTAEGGRGRNLRWRRRRRQRQ RRPLGKLGLWKRRQRRAGWGGGSGA ETRAAAVRRAGGRAVQAVAGALGRG SSIPGSPPHQQAADQPCRPNPLIRR RLP
2889	10940	A	3831	1	2376	MKLMETLNQCINAGHEMTKAIAIAQFND DSPEARKITRRWRIGEADLVGVSSQAIR DAEKAGRLPHPDMEIRGRVEQRVGYTIE QINHMRDVFGLRLRAEDVFPVIGVAA HKGGVYKTSVSVHLAQDLALKGLRVLL VEGNPDQGTASMYHGWVDPDLHIHAEDT LLPFYLGEKDDVTYAIKPTCWPGLDIIPS CLALHRIETELMGKFDEGKLPTDPHML RLAIETVAHDYD*FVQLYNQHVAQPVL/ GISISGCGSRPAFSASLIA*EETPTKSAASP ILQRRVIFLASGLSSLNCAMAI AFVIS
2890	10941	A	3832	1289	3109	ETPYVSLYAFWLFSFAKA*VAPPSGFSPT VVSSDSWLGLSVPYTLIART/PELIFVVRQ QVLDVERGAAACG*FLPRLVG*VPDLDA VGLYSTAPII*GAIPGQQG*GLRMSEAQG VPAGGSLSTTVRLTWACLLPSLFSTSSV *QPQCSWRAARMVSLLPFSLFSTFMCSL SWICFRNFIQVQVMG*VPVTLPNSSDTP ARTFWSSGNWMI*GGIAAFGGVLGAGFF FTVAS/PLSS*HGRKRALGPPGFHLWGLG VLTGWSIIHGDLAGALRLASVILGYTLV* ASVLRQCLLDGDGQSEPSWERMMNLV VLMVFPFSVQMMVAGGSEDTWHWSSSF LPSAT*TSFSCLKAGAVPWLSDFLSLV VPAWPLLQFTSFLTSFLSSLLADFRFSSG LALPMGFRVSAGLALPIGFRVSAGLALP TGFKGPEGCALLRGLSTALAFRVSAL LLPFSAGNFFLPSTERKSGVAGFGGGTF SGTGVLEVFPFLARTERKSTCWGLCTFLS SSDTVFGFTCRCLARKSICSAGISFRSSS DRVFVLTFPRRSRKSSCSTSCWRIASSV CCLVSTRLFSTPRTSSPSSSSQPCPLAGQ PGLRDP
2891	10942	A	3833	1	2968	MTIVAALMTVFFIMQLVGQVPAALWVIF GEDRFRWSATMIGLSLAVFGILHALAQA FVTGPATKRFGEKQAIAGMAADALGYV LLAFATRGMMAFPIMILLASGGIGMPAL QAMLSRQPNFDHWTADRHGDLCLRLGEH MERVGMDCRRRPIPCLPRVASRCMEPG HLDMMNGSRRLANGFTTPRIGANQFLRR TVNAQTNPWQNISIASAISSRTRRISGSV GSWPRSGNAEVSALHHYVVDLHRRMLL ATL
2892	10943	A	3834	1	563	MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQA FVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGM MAFPIMILLASGGIGMPALQAMLSRQLT SIIGPLIVTAIYAASASTWNLAWIVGAA LYLVCLPALRRGAWSRATST
2893	10944	A	3835	850	1280	
2894	10945	A	3836	3	3971	VCTGSSTRHIVTFDQGNFKLTGSCSYVLF QNKEQDLEVILHNGACSPGARQGC MKSI EVKHSALSVELHSDMEAFRLVHGHYPYS ITTACFLVKLCKVKLCFLVKLFILEELPT NIKVTVNGRLVSPYVGGNMEVNVYGA IMHEVRFNHLGHIFTFTPNNEFQLQLSP KTFASKTYGLCGICDENGANDFMRLRDG TVTTDWKTLVQEWTVQRPQTCQPILEE QCLVPDSSHCVLLLPLFAECKVLAFA

					T
2895	10946	A	3837	1838	4062
					KRHKKPFKKSTNPGAGFFEKINKIDRLA RLIKKKREKNQIDAIKNDKGDITTDPTM QTTVREYYKHLVYNKPENLEEMDKFLD TYTLPRLNQEEESLNKPITGSEIEAIINSL PTKKSPGPDGFTAIFYQRYKEELLPFLK LFQSIEKEGILPNSFYEASILIPKPGRDTT KKENFRPISLMNIDANILNNILANQIQHI KKLIHHDEVGFIPGMQGWFNIRKSINLIP HVNRTKDKNHMVISVDAEKAFDKIQQH FMLKTLNKLGDGTYLKIIRPIFDKPTADI ILNRQKLEALPLKTGTRQRCSLPLLFNI VLEVLARAIRQEKEIKGIQLGKEEVKLSL FADDMIVYLENPIVSAQNLLKLIGNFSKV SEYTINVQKSQSFLYTNNRQTESQIMSEL PFTIASKRIKYLGIQLTREVKDFKENVK PLLDEIKENTNKWKNIPWSWVGRIDIVK MAILPKQMPDVNVSWDGEKPKQLPFIDI SVAVATDKGLLTPHKDAAAKGQEIADS VRSNIVLQCQARPMLRAFNPVSSFRWA RGMTIVAALMTVFFIMQLVGQVPAALW VIFGEDRFRWSATMIGLSLAVFGILHALA QAFVTGPATKRFGEKQAIAGMAADALG YVLLAFATRGWMAFPIMILLASGGIGMP ALQAMLSRQVDDDHQGGQLQGSALAALTS LTSIIGPLIVTAIYAASASTWNGLAWIVG AALYLVCLPALRRGAWSRATST
2896	10947	A	3838	346	777
					GELYFQVCGQFWNRCGVVMKKMYILLF LSGEFCRCL*YSLMVVCISVGSVVISPLSF FIVSI*FFSLFFISLASSLSILLILSKNQLLD SLIF
2897	10948	A	3839	1	564
					MPLRAFNPVSSFRWARGMTIVAALMTV FFIMQLVGQVPAALWVIFGEDRFRWSAT MIGLSLAVFGILHALAQAFVTGPATKRF GEKQAIAGMAADALGYVLLAFATRGW MAFPIMILLASGGIGMPALQAMLSRQPN FDHWTADRHGDLCLRGHEHMERVGMDC RRRPIPLPRVASRCMEPGHLDLNGSRR HLANGFTTPRIGANQFLRRTVNAQTNPW QNISIASAISSRTRRISGSVGSWPRSGNA EVSA
2898	10949	A	384	244	315
					NPKGQKDREAPLSRVFVLKIKIKRAFAL LLHGRF*PSTPAASASPASKSPRGSKAL ASALFYIVQLTK
2899	10950	A	3840	3	1049
					GSLQGAASCARAFRLTCCARSESGLAV RGTKGVAFGENPRAAGTCSQSPFFPVAP PPGVRLWVLCPRFTGAFLRLTLALNV RAGDEGPRLLRAPRVPSRPSAPLAPAP ASTPARRLPVPMQAPGRGPLGLRLMMP GRRGALREPGGCGSCLGVALALLLLLP ACCPVRAQNDTEPIVLEKCLVCDSSP SADGAVTSSLGISVRSGSAKVAFSATRST NHEPSEMSNRTMTIYIDQVFSNIGHHFDL ASSIFVAPRKGIYSFSFHVVKVYNRQTIQ VSLLLNGYPVISAWAGYQDVTGEAASN GVLLLMEREDKVHLKLERGNLMGGWK YSTFSGLVFPL
2900	10951	A	3841	1	401
					KGASSPVQVPGPVAASTEALLQEAQCSG LSWVVALPQVKQEKADTQDEWTPGTAV LTSPVLVPGCPSKAVDPGLPSVKQEPDP EEDKEENKDDSASKLAPEEEITEIFSLGGP RFRDTAV*LPRSKDLKKPR

2901	10952	C	3842	108	293	MNMACLGCFVVALIILPFSNPAPPPLKSN FLYSGSWEEKMHQLSTLSLPLTSSRSS KYS*
2902	10953	A	3843	1	1490	MIREQKIYHKYLAQRREEEKAQEKEFDR ILEEDKAKKLAEKDKELRLEKEARRQLV DEVMCTRKLQVQEKSYVKLLAAHPT GDRIRSKVELTRYLGPACDLTLDFKQGI LCYPAPKAHPVAVASKKRKKPSRPAKTR KRQVGPQSGEVRKEAPRDETKADTDTA PASFPAPGCCENCISFSGDGTQRQLKT LCKDCRAQRIAFNREQRMFKQPYTNRR QNRKCGACAACLRMDCGRCDFCCDKP KFGGSNQKRQKCRWRQCLQFAMKRLLP SVWSEEDGAGSPPPYRRRKRPSARRH HLGPTLKPTLATRTAQP DHTQAPTKEA GGGFVLP PPGTDLVFLREGASSPVQVPG PVAASTEALLQEAQCSGLSWVVALPQV KQEKADTQDEWTPGTAVLTSPVLVPGCP SKAVDPGLPSVKQEPDPPEEDKEENKDD SASKLAPEEEAGGAGTPV/VTSVDSIYPE RQL*VSSWSYLHSCGTERYPGCSI
2903	10954	A	3844	1	1758	MAEDWLDCPALGPGWKRREVFRRKSGA TCGRSDTYYSPTGDRIRSKVELTRYLG PACDLTLDFDKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCIS FSGDGTQRQLKTLCCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRGKHARRKGGCDK MAARRRPGAQPLPPPPPSQSPEPTEPQPY T/PPAEPQVRGLCSLPTAEWMWPLR/FC CDKPKFGGSNQKRQKCRWRQCLQFAM KRLLPVWSEEDGAGSPPPYRRRKRPS ARRHHLGPTLKPTLATRTAQP DHTQAPT KQEAGGGFVLP PPGTDLVFLREGASSPV QVPGPVAASTEALLQAVDPGLPSVKQEP PDPEEDKEENKDD SASKLAPEEEAGGAG TPVITEIFSLGGTRFRDTAVWLP SLQGRH SGREDGCKVWETEDTVEPTSTSWNPRG WPGTHVSLSPPPASMMWVSCRSSWCPS SQS
2904	10955	A	3845	1	1647	
2905	10956	A	3846	1	1821	MAEDWLDCPALGPGWKRREVFRRKSGA TCGRSDTYYSPTGDRIRSKVELTRYLG PACDLTLDFDKQGILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCIGI SFGDGTQRQLKTLCCKDCRAQRIAFNR EQRMFKRVGCGECAACQVTEDCGACST CLLQLPHDVASGLFCKCERRRCLRIVER SRGCGVCRGFQ/TQED/CLGHCPICLRPP RPGLRQWKCVQRRCLRGKHARRKGG CDKMAARRRPGAQPLPPPPPSQSPEPTE PHPRALAPSPPAEFIYYCVDEDELQPYTN RRQNRKCGACAACLRNCGRCDFCCD KPKFGGSNQKRQKCRWRQCLQFAMKR LLPSVWSEEDGAGSPPPYRRRKRPSAR RHHLGPTLKPTLATRTAQP DHTQAPTKEA EAGGGFVLP PPGTDLVFLREGASSPVQV PGPVAASTEALLQEAQCSGLSWVVALPQ VKQEKADTQDEWTPGTAVLTSPVLVPG CPSKAVDPGLPSVKQEPDPPEEDKEENK DD SASKLAPEEEAGGAGTPVITEIFSLGG TRFRDTAVWLPRSKDLKKPGARKQ
2906	10957	A	3847	1	1723	

2907	10958	A	3848	1	1949	MAEDWLDCPALGPGWKRREVFRRKSGA TCGRSDTYQSPGDRIRSKVELTRYLG PACDLTLDFDKQILCYPAPKAHPVAVA SKKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCNIS FSGDGTQRQLKTLCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRHLAHLRRRHQRC QRRTPAVAPPTGKHARRKGGCDSKMA ARRRPGAQPLPPPPPSQSEPTTEPHRAL APSPPAEFIIYCVDEDELQPYTNRRQNR KCGACAACLRMDCGRCDFFCDKPKFG GSNQKRQKCRWRQCLQFAMKRLPSV WSEEDGAGSPPPYRRRKRPSSARRHHL GPTLKPTLATRTAQPDHTQAPTKEAGG GFVLPDPGH*TLCLFREGASSPVQVPGP VAASTEALLQEAQCSGLSWVVALPVK QEKADTQDEWTPGTAVLTSPVLVPGCPS KAVDPGLPSVKQEPDPEDKEENKDDS ASKLAPEEEAGGAGTPVITEIFSLGGTRF RDTAVWLPSLQGRHSGREDGCKVWETE DTVEPTSTSWNP
2908	10959	A	3849	2	1682	LCDTPPGRGGGGRGGGRGRLQEGPSF MGPRGLEWRKIPAWLPNWLLLPSVASM AED\WLYCPALGPGWKRREFFRRKSRATC GRLNTYYQSPGDRILSKVELTRYLGPAA CDLTLDFDKQILCYPSPQRPIPLGGLPG KKRKKPSRPAKTRKRQVGPQSGEVRKE APRDETKADTDAPASFPAPGCCENCNIS FSGDGTQRQLKTLCKDCRAQRIAFNRE QRMFKRVGCGECAACQVTEDCGACSTC LLQLPHDVASGLFCKCERRRCLRIVERSR GCGVCRGCQTQEDCGHCPICLRPPRGL RRQWKCVQRRCLRGKHARRKGGCDSK MAARRRPGAQPLPPPPPSQSEPTTEPHR ALAPSPPAEFIIYCVDEDELKRLPSVWS ESEDGAGSPPPYRRRKRPSSARRHHLGP TLKPTLATRTAQPDHTQAPTKEAGGGF VLPPPGTDLVFLREGASSPVQVPGPVA STEALLQAVDPGLPSVKQEPDPEDKE ENKDDSASKLAPEEEAGGAGTPVITEIFS LGGTRFRDTAVWLPRSKDLKKPGARKQ
2909	10960	A	385	933	1511	QVYRPSQTPHLALSPERVAPGRLAGGRL APEARAPRGSP/LPPHRVSEKTIRVMVFH PGARRAGGTTPRAPRGDTGGAPGA\PTY STPLMSLHRARLESSSTGSSFPADSAKPV PLAVVSLDSR*GQWESRSSIHA\VTN*AS SSSSSSSSS\FSR\VYPRFIEFLHFDIQSTG Q/RITSRQHPPR/DFRDALF*LNS
2910	10961	A	3850	1	391	SPLNKVQLINELNEREVQLGVANKVSW HSEYKDSA WIFLGLPYDLTKGDIICVF SQ\QRSTIVAVDNFNIGIKIKGRITRVDHVS NYRAPKDSEEDDVTQRLQEKGCARTP SPSLSESEDEKPTKKP
2911	10962	A	3851	1	135	
2912	10963	A	3852	18	238	
2913	10964	A	3853	254	1424	

2914	10965	A	3854	8	1015	FLSAEREPEEMNPLTKVKLINELNEREVQ LGVADKVSWHSEYKDSA\WISLG\GLPY ELTEGDIICVFSQYGEIVNINLVRD\KKT GKS\KGFCFLCYEDQRSTILAVDNFNGIKI KGRITIRVDHVS\NYRAPKDSIEDDVT QLQEKSGGARPPSPTLSESEDEKPTKKH KKDKK\EKKKKKKEKEKADREVQAEQP SSSSPRRKTVKEKDDTGPKKHSSKNSER AQKSEPREGQKLPKSR\TAYSGGAEDLER ELKKEKPKHEHKSSSRREAREEKTRIRD RGRSSDAHSSWYYWRS\EGRSYRSRSRS RDKSHRHKRARRSRERE\SSNPSPDRWRH
2915	10966	A	3855	299	374	
2916	10967	A	3856	1	993	
2917	10968	A	3857	3009	3583	LFCLFFHILQPSHCWISSEMVVQLS\DSLTD LLDKFSNISEGLSNYSIIDKL\VNIVDDLVE CVKENSSKDLKKSFKSPEPRLFTPEEFFRI FNRSIDAFKDFVVASETSDCVVSSTLSPE KGKAKNPPGDSSSLHWAAMALPALFSLII GFAFGALYWKQRQPSLTRA\VENIQINEE DNEISMLQEKEREFQEV
2918	10969	A	3859	880	1196	SPTTRRGTPGTCLKPTACAGAA*PGCSA RRTCASAAPLSTCPPSSCAAPPAPAAVP STPRPTSPSPWAAPASPSRRRTQTASTPA STNRAPSSCWAPTTRPLAP
2919	10970	A	386	15	466	GVPNNFIINKNKTSPGWLQPLPRWL*AP VGGACHYPGLEARTEERAPCPKYTGEP EVLRIKNQGGTPRPGGGGPSAPRGSFL WST/PGSCPSITPHSLPAAR/PLPPTPRHPA PSSPPCTE/SAPSGPSSSQAPGITVAPGISQ VQRAAALR
2920	10971	A	3860	305	631	IEKISLEPKNRPSQIPNLVGP/RLFLVPGD FQSQVPNFLPKPSSGPHPAAGKGQPFSS LPAWRSTGPERATPGPGRPAACSALEAP SLRGPSGYSAQEPPRRPISARI
2921	10972	A	3868	980	1498	VSLINLQVLRQSLEQVTETFTSYFKPSCQ/ PPTSPIRAMKWTELRFSLCLPAGRQHYL LPATPPCSVRGVHKGKSTVPPAAPSPSTA QSHQPASHPLSSPTFLFEPIKDAGTHASLF SRDRHLPFPTCHIRRPQPCLSPPHCSQGS RTGRAVTAALRMAAAAAMTGNQSPTRI
2922	10973	A	3869	94	484	AAAALAAASLLLRREDPGPGAGPSMAE TEALSKLREDFRMQNKSVFILGASGETG RVLLKEILE\QGLFSKVTLIGRRKLTDFE EAYKNVNQEVVDFEKLDDYASAFQGH D\LGFC\CLGYHQEGKAGGG
2923	10974	A	387	50	481	FMEYLTLSFIHVLLQ*FIHCFVHLFIHSFF YALMKSLIQ*FIHLYSCF/ICIDLLISSCIYS FIYALVKSLANSLTHSFIHTFLQ*FVHLFT PLICSFTHSSIH*PSHSLTFIQLHLFFHAL VSGFIWSFIYLFCKINVFLIDK
2924	10975	A	3870	302	1187	TALVPRDKDWQSPDTLKTGICRCYFPSM AETEALSKLREDFRMQNKSVFILGATVE TGRVLLKEILEQGLFSKVTLIGRRKLTDF EEAYKNVNQEVVDFEKLDDYASAFQGH HDVGFCCLG\TTRGKAGAE\G\VRVDRD YV\KSAELEKAGGCKHFNLLSSKGADK SSNFLYLQVKGEVEAKVEELKFDRYSV FRPGVLLCDRQESRPGEWLVRKFFGSLP\ DSWA\RGHSVPVTVVRAMLNNVVRPR DKQMELLEN\KAHGPGGKRHGSSSQGHD HTGRNGFYLFNLNTHDQIG
2925	10976	A	3871	71	335	PTRSTSSGSYMKRRSGSCSP/MISDTSVV LSMDNSRSSRAVVVKIETRDGKLVSES SDVLPK*TAAAAPPSPLLRCRAWEGG RYAW

2926	10977	A	3872	35	450	DIEECESMH*DDIRKHTEMENEFALIKKD MDEAYKNKVELESHLEGLTEISFLTQL YEEEIRELHVPDLGHICGAVH*QQSLPGH EQHHR*GQGTVRGDRQPQPG*G*EHEIK YEELQTLAWKHGMTRGAQRLRSPR
2927	10978	A	3873	2121	2371	LENQSPRHVYSLSLKSKNDVMLL/DTAI FCPEATSEALDVVTSWASEAGTEELAFG FGLVSLSYCKLSTSLSVASSFVGGDWL
2928	10979	A	3874	29	3977	AEVAHARWERCFFSPTPFLWGCFDRLL PGRACFRRAGRLKRGSYNCSQLWLCV EKALAMDRSGFGEISSPVIREAEVTRTAR KQSAQKRVLLQASQDENFGNTTPRNQVI PRTPSFRQPFTPAKSRSLRQPDISCILGT GGKSPRLTQSSGFFGNLSMVTNLDDSN WAAAFSSQRS\GLFTNTEPHSITEDVTISA VMLREDDPGEAASMSMFSDFLQSLKHS SSTVFDLVEEYENICGSQVNILSKIV
2929	10980	A	3875	597	1088	GCQRQVVPWRPPLQRAKQDMAWQLL EYQELMNIKLALDIEIATYRKLEGEESQ LDSCMQNMSIHTKTTGGYAGGLSSAYG DLTDPGLSYSLGSSFGSGAGSSFSRTSSS RAVVVKKIETRDGKLVSESSDVLPK*TA AAAPPSLPLLRCPRAWEGGRYAG
2930	10981	A	3878	1	2474	MPGYSALSNKPMLETTQMSITRGMGKL LVVRCGTEKAGPAVPGMEGPRSSHTV PLVPLLVLLLAPARQAAAQRCPQACI CDNSRRHVACRYQNLTEVPDAIPELTQR LDLQGNLLKVIPAAAFQGVPHLTHDLR HCEVELVAEGAFRGLRLLLLNLASNHL RELPEALDGLGSLRRLLELEGNALIELRP GTFGALGALATLNLAHNALVYLPAMAF QGLLRVRWLRLSHNALSVLAPALAGLP ALRRLSLHHNELQALPGPVLSQLGLAR LELGHNPITYAGEEDGLALPGLRELLD GGALQALGPRAFAHCPRLHTLDLRGNQ LDTLPPLQPGQLRRLRLQGNPLWCGCQ ARPLLEWLARARVRSBGACQGPRLRG EALDALRPWDLRCPGDAAQEEEELEERA VAGPRAPPRGPPRGPGGEERAVAPCPAC VCVPESRHSSCEGGLQAVPRGFPSDTQ LLDLRRNHFPSPRAAFPGLGHLVSLHL QHCGLAELEAGALAGLRLIYLYLSDNQ LAGLSAAALEGAPRLGYLYLERNRFLQV PGAALRALPSLSLHLQDNAVDRLAPGD LGRTRALRWGL/HLSGNRITEVSLGALGP ARELEKLHLDRNQLREVPTGALEGLPAL LELQLSGNPLRALRDGAFQPVGRSLQHL FLNSSGLEQVGTGHLAGLVQEAQAQHR QRAFTQAFASPLVPGLGPGQLSLHLQK NQLRALPALPSLSQLELIDLSSNPFHCDC QLLPLHRWLTGLNLRVGATCATPPNAR GQRVKA AAAVFEDCPGWAARKAKRTP ASRPSARRTPIQRKTVWTR
2931	10982	A	3879	1	531	ETPSSEPMEEEDDDLELFGGYDSFRSYN SSVGSESSSYLESSEAENEDREAGEL/H DLPAFAQPWDSSLLGWQWF*ASCL/LR CVVSVWVQKPSRPRGSAASPAGATP PTPRKPVSWLGYRENHRPKPKSCTRLP GLPKLEPSSTLKGQDSWQMGHQDKTL WSWASTGGSS

2932	10983	A	388	119	1533	KKMNLAEICDNAKKGREYALLGNYDSS MVEYQGVMMQDSDRIAQSVQRSQLSK GKWPTRFGQELAEYEQVKSIVKHPKK VFKIDKPSQISPVSLSR*THLEIPAVWPTP VPAEHRAPPQIRR/RQSRKTSEERNGRS RSPGTCRPSTSYIKE*/NSLLQVGTRTIEPE GGDDKGRKNMQDGASDGEMPKFDGAG YDKDLVEALERDIVSRNPSIHWDDIADL EEAKKLLREAGVLPWMWMPDFFKGIRRP WKNDSONLGKPYRAQDDIGMNIVGPL THGFSSASAAPETTRQPLFLLLLSLSKV KTFKGVLMMVGPPTGKTMLAKAVATEC GTTFFNVSSSTLTSKYRGESEKLVRLFE MARFYSPPTIFIDEIDSICSRRTSDEHEA SRRVKSELLIQMDGVGGALENDPSKM VMVLAATNFPWDIDEALRRRCFIWVG FPDVPQEKDTSVSPESCLLTDWWWGL
2933	10984	A	3880	143	606	NKYTDYQCLLKSKGVDKKGKTASSLP EGSQSISREHLPAQSWLPWACLLWLPA LL/HDEMOMRKQLPGLRSRAHSARQVR W/PCREAAAGCRMQRQASHLKSPEGKFH GHFLNTRVGRAGGNPHRPGKKWLLPSS VYVCNTEHCLWGAWCPKPNG
2934	10985	A	3881	253	514	
2935	10986	A	3882	950	1612	IIPILASVTQPKQPAWKTGTGKGPQVS ISITEKVKSMQYDKQGIADTWQVVGTV TCKCDLEGIMPNVTISLSLPTNGSPLQDIL VHPCVTSLSAILTSSSIDAMDDSAFSGP YKFPFTPLESFNLCFYTSQSVIDDQPSKL LLNDGIGELMGFNWSNRSCGQVGSNQY AYCMPYAADQRTWRRGAWTSKYRNKN ALYTFVKRFSHLRKQREKNPYP
2936	10987	B	3886	146	326	MDESAPLCRTLGRVSDDPGLIPGCAS GPLAVPESEQKVHERKSLHWDLGLVSL VRAQX*
2937	10988	A	3887	575	828	CYPKVGRKPIKGEGEAPGAREKKNFAAE KRGLIPHGRKCLPISPCTGTRGPWCPCSS SGCASADTCTPRGALGAQKPIRESNF
2938	10989	A	3888	3	267	AMVGGGGVGGGLENANPLIYQRSGER PVTAGEEDEQVPDSIDAREIFDLIRS*AW PLTPQPAYWYPGPSSCQGCYRCFLES LTMRN
2939	10990	A	3889	1	942	
2940	10991	A	389	293	805	KARDKSPFLGDLCLKDTGQSSLQCRFF PFLGTKISCFQNVHSWQTITSDGLSAGDG GFGPKYQ/RSRGQIPSGLSLPLNSSESDL LPTPHFPLQSQGLGSQVAQIDVKA PPFPAEPQPKRLRSPRPLLAGIESVAVSRSLP SGPTGTDAL*WLSVQKPPTRTIHGNE
2941	10992	A	3890	3	470	AMVGGGGVGGGLENANPLIYQRSGER PVTAGEEDEQVPDSIDAREIFDIRRCWAR AGSGGLRWGEQ*YRAAGGAASQGV PGRGF*VGKGAESLFLHFPQLIRFLNDP EHLSTLEELNVVEQVRVQVSDPESTVA VAFPTPTISHWSMGTIGVC
2942	10993	A	3891	2	604	ARSHRISGGGSAMVGGGGVGGGLEN ANPLIYQRFGEVRPVTAGEEDEQVP SIDAREVFDLIRSHQMTPEHPALT LEELNVVEQVRVQVSDPESTVAVG FPKPTHSGTCRHGPPLIGLSMKVK LLRSLPSAFSRWDVALHLLPGDPLP QEHAQEATLQIKEAGWATALGRTHH LLEVNNQCLSSPAPGTWAFVPLSLA
2943	10994	A	3892	73	204	

2944	10995	A	3893	1	846	QGANMPRYAQLVMGPAGIVKSTYCAT MVQHCEALNRSVQVVNLDPAAQHFNYS VMADIRELIEVDDVMEEDSLRFGPNGL VFCMEYFANNFDWLENCLGHVEDDYIL FDCPGQIGVVTLTPVPMKQLVPALEQ WEFRVCGVFLVDSQFMVDHSRFSGLA AALSA MISLEIPQVNIMTKMDLLSKKA KKEIEKFLDPDMYSLLEDSTSDLRAKN SRKLDLKAIMWDLIGWTYSLVRIF/IPYD QSDEESMNIVLQHTGFAIQYGAELEFKR NPKEREE
2945	10996	A	3896	1	1319	MDYGLLCGQQLVPQVEPVIQRGHESLV HHILLYQCSNNFNDSVLESGHCEYHPNM PDAFLTCTETVIFAWAIGGEGFSYPHVGL SLGTPLDPHYVLEVHYDNPTYEEVLDA EKYKYKVLASDEGLLTGHNMAVGFTW WKGLIDNSGLRLFYTMDIRKYDAGVIEA GLWVSLFHTIPPMPPEFQSEGHCTLECLE EALAEKPSGIHVFAVLLHAHLAAGRIRL RHFRKGKEMKLLAYDDDFDNFQEFQY LKEEQTLPGDNLITECRYNTKDRAEMT WGGLSTRSEMCLSYLLYYPRINLTRCASI PDIMEQLQFIGVKEIYRPVTTWPFIIKSPK QYKNLSFMDAMNFKFKWTKKEGLSFNK LVL\SLPVNVRCKTDNAEWSIQGMTAL PPDIERPYKAEPLVCGTSSSSSLHRDFSIN LLVCLLLSCTL\STKSL
2946	10997	A	3897	1	394	
2947	10998	A	3898	1	150	
2948	10999	A	3899	708	911	
2949	11000	A	39	132	370	SNSPA*PSGEPGTMG/CRPPCPVNFILRK NGVPPCGPGGPKSPDLRTHPLGPPKGRG IPGGTHCPGPPLGFKKPWPPGRV
2950	11001	A	390	2	428	GLPGSTTASAAAASAASSDAPSFQLG KPRLLQOTSFYGRFRHFLDIIDPRTLFTVTE RRLKEAVQLLEDYKHGTLRPGVTNEQL WSAQKIK/SGYIPFGTPIVVGLLPNQTLA STVFWQWLNHSHNACVNYANRNATKP SPA
2951	11002	A	3900	1	1349	MAAGQRRSSLSRLGSQFINCDPECQLSC LVGLEVQKEEVIRAAEGWKRAAPAGLR PTNYSNRQASEGRVVIAGNQSYQSRASP RPLARWKASANGRAPIAEPAAAVAGLG AGSGKRRRGWKMPVHSRGDKKETNHH DEMEVDYAENEGSSSEDETESSSVSED GDSSEMDDDCERRRMECLDEMSNLEK QFTDLKDQLYKERLSQVDAKLQEVIVE RAPEHLEPAGNLQENMQIRTKVAGIYR ELCLESVKNKYECEIQASRQHCESEKLLL YDTVQSELEEKIRRLEEDRHSIDITSELW NDELQSRKKRKDPFWPDKKKPGVSGP YIVYMLQDLDILEDWTTIKNAMATLGPH RVKTDPPVKLEKHLHSAISEEGRLYYDG EWYIRGQTICIDKKDECPTSAVITTINHDE VWFKRPDGSKSKLYISQLQKGKYSIITFII MI
2952	11003	A	3901	38	383	
2953	11004	A	3902	252	526	

2954	11005	A	3903	777	1719	LLTLTFPRCSVAQPLPFTGGTSVSWALL ALHVAVVFLFAGAAGCVATLLHDAAM NPAEVVKQRMQMYNSPYHRVTD CVRA VWQNEGAGAFYRSYPTQLDHDVFFQAI HFMDLWNSCRSTLTPKRSYNPDSHFFSG LCAGAVAAAATTPLADVCKTLLNTPGVL GFELTHYRTY\QGMASAFRTVYQVGGV TAYFRGVQA\RVYIQIP\STAIAWSVYEFF KYLHLKGQEEWRAGKVKLALNESPGV QDDTDASWSHSLSPGMLPPQVELKGKE KGLSPTDFGVLNTNTSSCQPLLPPFLPGP KHVQQSTPQHL
2955	11006	A	3904	1	1788	MLQQGAILEAETKPSPTKYTSALIFNFP ASTADLGKTKRPAVEEKETPNKTRAQSL FLLAKERRQDPFRPGLSALPLVKMAAIG GAAHSEGRRLPCRPRPFTSPRPSRLDA LQVQRDQSDGAALFGQPLQGRAGLSER PCQTERGKKPQORQLSNRLQTAFRRGPL GSGFQLRWSCRGCNVNAARSPGSAQR SRSREPLLGPWPGRGWQLCESLKKIA KGWVSQDPSRQLKECGQSASTSPRTPY SQDLLQHPKLEVAADPRTRGTREPAAL VERLEMLSGAGSVVDVPLLVRRRRR RRRRHSAQRALAAAAAAAASEPLDCQM RLCASLGVFSTAPSSSACRADITDCVSG AGGEMVPRRVLADQLTEEQIAEFKEAFS LFDKDG\DGTTTTKEL\GTVMRSLGQTQT EG\EL\QDMINEVYADGNGTIDFPVFLTM MARKMKD TDSEEE\RESFRVFAKDGN YISAAELRHVMTNLGEKTT\DE\VDEMI READIDGDGQVNYEEFVQMMTGKMED LTFQLPFSPPLEESNWNLLTLLQKKEKK KKVHLFHSCFLYSKTECQKYL LVHTHQ NLHVLVGGPVP
2956	11007	A	3905	1	351	GPPRPPTPLLKPIRGATARPPRSRF*PRS DIPPLSRVLVARPPRSPPLGKPLWIMGRP RPPIAPLARAPMGRPNRAWMLLLPRRCF KLFEGNRRQCSSRGCHHGSGRRAGDRP NLS
2957	11008	A	3906	3	345	SCRCRRKAGKGRPGEQTD RPTRQPTSNN ELSSHTTAYASNQPI*LTRAPPSTQVRP VPGPPAGAVVAVPGGALASVSFDSRDSK TAAQSSSEVGALPPHQDVTICAVRAAT
2958	11009	A	3907	3	387	RPLQTKGRKGQAGFGRSPARLPEPWWQ PREEH/WASVSFDSRDSKMAAQSAPKVV LKSTTKMSLNERFTNMLKNKQTPVNIR ASMQQQQQLASARNRRLAQQMENRPSV QAALKLKLKQSLKQRLGKSN
2959	11010	A	3908	565	719	GRDVT PRSKPAPRWTSRSPNGLKKRW CSRSWRSWERGPRASALGKSNQARL/ WPTHRGPGQGSNRRTPTPYSREALPRE GLRGGRATENPT*GRDVT PRSKPAPRW SRSPNGLKKRWCSRSWRSWERGPRAW SYGSWRNRW
2960	11011	A	3909	299	557	ADGSADLDSQRSSNELSSHTTAYASNQ/ LHLANPSPSTSQLRFRPVAVAVPGAVG GSPREEHLASVSFDSRDSKMAAQSSEK LC
2961	11012	A	391	3	297	
2962	11013	A	3910	1	420	
2963	11014	A	3911	2	437	
2964	11015	A	3912	10	250	
2965	11016	A	3913	2824	3156	SNEGVKGLSRQKAWTADYNFCLGGNCH FSGFYFSDSCYSSYRRCRTCCDFCNSG RNCSGFWFGLCCTILCSD*SSFLISRSTW TPGLAHIPTRLLIT*TLISWSTV
2966	11017	A	3914	1	70	
2967	11018	A	3915	42	140	

2968	11019	A	3916	4594	4848	HIYCE*SLYLFRE*DLDDGDLDECELAR LRDLVYDLE
2969	11020	B	3917	565	1161	MYHGWVPDLHHHAEDTLLPFYLGEKDD VTYAIKPTCWGLDIIPSCALHRIETELM GKFDEGKLPTDPHMLRLAIETVAHDYD VVIDSAPNLGIGTINVVCAADVIVPTPA ELFDYTSALQFFDMLRDLLKNVDLKGFE PDVRILLTKYSNSNGSQSPWMEEQIRDA WGSMVLKNVVRETDEVGKDLHALLVR L*
2970	11021	A	3918	3	226	LSVLFCCFGVESNFFNYVYSCCVFMATS QTDVICMHTYSLIEMIVIHYNLEFF*ISKM ATIAVLGFLRLDIYHV
2971	11022	A	3919	1469	2806	CGSPPFATSSFFALS GHVLF AKLCTMVAP KLRSWYAVYGA LAVMGTMGPWYLL LLGHCVGLYVASLLGQPWLCLGLGLAS LASFKMDPLISWQSGFVTGTFDLQEVLF HGGSSFTVLRCTSFALSCAHPDRHYSL ADLLKYNFYLPFFFFGPIMTFDRFHAQVS QVEPVRREGELWHIRAQAGLSVVAIMA VDIFFHFFYILTI PSDLKFANRLPDSALAG LAYSNLVYD WVKAAVLF GVVNTVACL DHLDPQP PKCITALYVFAETHFDRGIND WLACKYVYNHIGGEHSAVIPELAATVAT FAINTTLWLGPCDIVYLWSFLNCFGPQTL KLWVPKTGQKWGPPKHEIEGLLCQVQ MSRRV RALFGAHEL SWPHMYNLVSLN SLAKFTELVARRLLLTGFPQTLSILFVTY CGVQLVKERERTLALEEEQKQDKKKPE
2972	11023	A	392	1	885	
2973	11024	B	3920	54	316	TIWDGEETVYCFKERSRAALKACYRGN RYPTPDEKRRLATLTGLSLTQVSNWFKN RRQRDRTGAGGGAPCKRKLPPGQPCVW QPHRDG*
2974	11025	A	3921	1	2219	MATLPAEPSAGPAAGGEAVAAAAATEE EEEEARQLLQTLQAAEGEAAAAAGAGA GAAAAGAEGPGSPGVPSPPEAASEPPT GLRFSPEQVACVCEALLQAGHAGRLSR FLGALPPAERLRGSDPVLRLARALVAFQR GEYAELYRLLESRPFPAAHHAFQLDLYL RARYHEAERARGRALGAVDKYRLRKKF PLPKTIWDGEETVYCFKERSRAALKACY RGNRYPTPDEKRRLATLTGLSLTQVSNW FKNRRQRDRTGAGGGAPCKSES DGNPT TEDESSRPEDLERGAAPVSAEAAAQGSI FLAGTGPPAPCPASSILVNGSFLAASGSP AVLLNGGPVIINGLALGEASSLGPLLTG GGGAPPPQSPQGA SETKTSLVLDPQTG EVRLEEAQSEAPETKGAQVAAPGPALGE EVLGPLAQVVPGPPTAATFPLPPGPVPAV AAPQVVPLSPPPGYPTGLSPTSLLNLPQ VVPTSQVVTLPQAVGPLQLLAAGPGSPV KVAAAAGPANVHLINSVGVTALQLPS ATAPGNFLLANPVSGSPIVTGVALQQGKI ILTATFPTSM LVSQVLPAPGLALPLKPE TAISVPEGGLPVAPSPALPEAHALGTLSA QQPPPAATTSSTSLFSPDSPGLLPNFP PPPEGLMLSPAAPVWSAGLELSAGTEG LLEAEKGLGTQAPHTVLRLPDPDPEGLL LGATAGGEVDEGLEAEKVLTLQLSVP VEEPELE
2975	11026	A	3922	185	478	VSDTLWALAGLAAGRWAGGCQTGLGQ GVVQGLGLLINGPRAGAAPLSLGNLHPP SAARWHPS*AASHTGTGQSLVGIVEPHN PTSSGG*RPGTAGRSQ

2976	11027	A	3923	74	593	RGWVMWVDEFQPALVLSPYERQLNLDA SVQHLEDGDGKRKRSSSSSPRSINKKAKA LDNSLQPKSLAASSPPPCSQPSQCPEEK QGVKPHGPRGPLSASGVPGFPWPQG GG/WWGAAGRVAEPRTESREPVSGAGT SSRSPSTGFRQPPHPSARPSRAAPGQR GWAGDRR
2977	11028	A	3927	1	2936	MALMFTGHLLFLALLMFASTFEESVSN YSEWAVFTDDIDQFKTQKVQDFRPNQK LKKSMHLPSLYFDAGEIQAMRQKSRASH LHLFRAIRSAVTVMLSNPTYLPPPKHA DFAAKWNEIYGNNLPLALYCLLCPEDK VAFEFVLEYMDRMVGYKDWLVENAPG DEVPIGHSLTGAFATDFLYNLNDNHRR QKYLEKIWVITEEMYEYSKVRSWGKQL LHNHQATNMIALLTGALVTGVDKGSKA NIWKQAVV
2978	11029	A	3928	2	512	
2979	11030	A	3929	1	399	
2980	11031	A	393	2	674	SCPLSCTSAATGLVWKEGLRIVSSVLLGL SCPWGSPLAEALDLGEG/RLWRTSFYGR FRHFLDIIDPRTLFTERRLREAVQLLED YKHGTLRPGVTNEQL*SAQKISQAIYHP DTNEKIFMPFRMSGYIPFGTPIVVGLLLP NQTLASTVFWQWLNQSHNACVNYANR NATKPSPAKFIQGYLGAVISAVSIAGL NVLVQKANKFTPATRLLIQRFPFPAV
2981	11032	A	3930	1	1812	NRRTRP GCGVVT CYRREFIQR LKLEAAL NVHDGCVNTICWNDTGEYILSGSDDTKL VISNPYSRKVLTTIRSGHRANIFSAKFLPC TNDKQIVSCSGDGVIFYTNVEIQDAETN RQCQFTCHYGTTEIMTVPNDPYTLFSC GEDGTVRWFDTRIKTSCTKEDCKDDILIN CRRRAATSAICPPIPYYLAVG\CS DSSVR YDR\RM L GHKELQGN YAGRG\TTGIGLP RFISLPHLNNKSCRVTSLCYSEDGQEILV SYSSDYIYLFDPKDDTARELKTPSAEER REELRQPPVKRLRLRGD WSDTGPRARPE SERERDGEPESPMCPLMQRMS\DMLSR WFEEASEVAQSNRGRGRSRPRGTSQSD ISTLPTVPSSPDLEVSETAMEVDTPAEQF LQPSTSSMSAQAHSTSSPKESPHSYSFC YFLPDS\DQRQSVEASGHHTHHQSEFLR GPEIALLRKRLQQLRLKKA EQQRQQLA AHTQQQPSTSDQSSHEGSSQDPHASDSPS SVVNKQLGMSLDEQQDNNEKLSPKP GTGEPVLSLHYSTEGTTSTIKLNFDEW SSIASSSRGIGSHCKSEGQEE SFVPQSSVQ PPEGDS
2982	11033	A	3931	1	1878	
2983	11034	A	3932	2	202	
2984	11035	A	3933	9	111	SRQAWHEASNYGPMKSGNFGGIURNMG GPYGGGNL
2985	11036	A	3934	297	611	QWGLRFMNGVLSGGLSVQTASPPSASR RHFP SLGVGDGELSHGGRC PAGVKVGR GGNSYLSKARCFGGHGVSSASVSAGS RSS*ARLSFPSPSLTGTGFGR

2986	11037	A	3935	14	1276	KSGGTALA AVAAAPGPVRRCSSQSCFSS SGSSHYSA RTSPVRVRPRRLSSRSAAAGN RAEATESAMEKTLETVPLERKKREKEQF RKLFIGGLSFETTEESLRNYEQWGKLT DCVVMRDLAS\KRSRGFCFVTFHSIHGLE VDAAIAS\RPHSINGEVVEQKRAVAREE SGKPGAHVTVKKLFVGGIKEDTEHHLR DYFEEYGKIDTIEITDRQSGKKRGFGFVT FDDHDPVDKIVLQKYHTINGHNAEVRK ALSRQEMQEVQSSRSRGGNFGFGDSR GGGGNFGPGPGSNFRGGSDGYGSGRGF GDGYNGYGGGPGGNGFGGSPGYGGGR GGYGGGGPGYGNQGGGYGGGYDNYGG GNYGSGNYNDFGNYNQGPSNYGPMKS GNFGGSRNMGGPYGGGNYGPGSGGSG GYGGRSRY
2987	11038	A	3936	827	2064	QORRVPCGGAPRRVVSRAAAVLTTAPG RVRFVVRGDLSHLARLREIGLKRLSPR WREKKKQFRKLFIGGLSFETTEESLRNY YEQWGKLTDCVVMRDPASKRSRGFGFV TLSSMAEVDAAAMAARPHSIDGRVVEPK RAVAREESGKPGAHVTVKKLLVGGIKE DTEHHLRDYFEEYGKIDTIEITDRQSG KKRGFGFVTFDDHDPVDKLDLRKYHTI NGHNAEVRKALSRQEMQEVQSSRSRG GNFGGDSRGGGNGFGPGGNGFRGGSD GYGSGRGFGDGYNGYGGGPGGNGFGGS PGYGGGRGGYGGGPGYGNQGGGYGG GYDNYGGGNYGSGNYNDFGNYNQQGS SYGPMKSGNFGCWRNMGGPYGGGNY GP/GGSGSGGYGGRSPILKLLPICHGAS LV
2988	11039	A	3937	36	320	GPGRWVVVDEVMTWLELEQYPVSFLKQ PFEIGRHLDLPKGTYGICVNMCPGNKSC/ PRGKRCQSNCGHVCKVVPETSKSQPLR CSQKMTWHSSL
2989	11040	A	3938	3	713	
2990	11041	A	3939	1	519	
2991	11042	A	394	485	1044	HLVPLCPCNLKAGRCTVQERLLVICCS RSWRWRNLM*RWLNYPVSSGHRH*SS LARETSVDPDMRKGPAGAEGKGKAVGC KGVSQETAAYWKRTSSSLEPTWLLTN KPMFFGFRNLFAPTFRHTPEALWLPTC HRGSPALHIEAFMPAALPSGTASCELPGH WPYQLSGVLCCAPWVIKEA
2992	11043	A	3940	1	966	MGHHLMDKLV ALGGLYYAIQRHYATK CSVLKNDQILVIGLFMIQNVYRKHFANP LSALFLQQGIELFAIAEIHITVAERNHA ITQIRLEAQTFDSLKEWHNAIRKSLDYE ALQAFEFVRVGATDRGFALSSEALVRVL VLDANDNSPFVLYPLQNGSAPCTELVPR AAEPGYLVTKVVAVDGDSGQNAWLSY QLLKATEPGLFGVWAHNGEVRTARLLS ERDVAKHRLVVLVKDNGEPPRSATATL QVLLVDGFSQPYLPLPRAAPAQAQADSL TVYLVVALASVSSLFLFSVLLFVAVRLC RRSRAAPVGRCVSL
2993	11044	A	3941	1	2783	RILSVDDFVELNVSSLVAVAEGIGYRDL DSNMKKLGRIHPNRQVLAFILMVFLSQV RLEPIRYSVLEETESGSFVAHLAKDLGLG IGELASRSARVLSDDDKQRLQLDRQTGD LLLREKLDREELCGPIEPCVLHLQVVLE MPVQFFQGELLIQDINDHSPFFEREVLL KILENSQPGTLFPLIAEDLDVGSNGLQK YTISPNSHFILTRNHSEGKKYPLDVQDK PLDREEQPEFSLTLVALDGGSPPRSCT
2994	11045	A	3942	383	703	NRITPTSARINLSILVPSAINNGSMTEIN RTVISGTPRQNSIKMTDKIRTIGIWERRPG VVVLTTCLIMV*HLTSAIANRLNLLRKL

						RMVIFSHRLKVSSMKSA
2995	11046	A	3943	1887	3072	NFVMCHGEPWLAGRTVVPVSTLSGP ALQKLGKTPLGRLFTSSTLTRDFIEIGR DAGLWGRRSRLRLSGKPLLLTELFYRRH RCTKRKKICDCISANVWAVLKTVEAAGS DRPVQCLTITAVQRRERDTQSLSVITAELE PVSSPHFIREAGQYGTGRSSKEREVQPVV QRSFSNWIRNNCGDICELSPTS GDHPPPS GPGLYSARKAIMQHYQARGMRDVTVED IYIGNGVSELIVQAMQALLNSGDEMLVP APDYPLWTAASVSSGKAVHYLCDESS DWFPDLDDIRAKITPRTRGIVINPNNTG AVYSKELLMEIVEIARQHNLIIFADEIYD KILYDDAEHHSIAPLAPDLLTITFNGLSKT YRVAGFRQGWVHRFFTPRLTVQAI
2996	11047	A	3944	623	2587	SPRKGKGGKGGKANRVLGTGAPLDPIDLS QSAVSHSVKEL/ENHTGVRLLDRTTREV VL/TDAGQQLALRLERLLD/ELNSTLRDT GRMGQQLSGKVRVAASQTISAHLIPQCI AESHRRYPDIQFVLHDPQQWVMESIRQ GDVDFGVIDPGPVGDLQCEAILSEPFLL CHRDSALAVEDYVPWQALQGAKLVQ DYASGSRLIDAALARNGIQANIVQEIGH PATLFPMAAGIGISILPALALPLPEGSPL VVKRITPVVERQLMLVRRKNRSLSTAAE ALWDVCNCAIQPFPTAITRCIGSVTVKLV LVPVGKSEFLAAQHKVVTCNPAGDIAV VASVIGLICITLSKERFEPPTAAGEIVADT VQEHIVVEIHAIRRTVGAIQMVEIKSGV TQAYLQLGINEKLGLSGRPDRPIGCLGTS KIYRILGKTVVCYPIIFDLSDFYMSQDVF LLIDDIKNALQFIKQYWKMHGRPLFLVLI REDNIRGSRFNPILDMLAALKKGIGGVK VHVDRLQGPLENDLVVHVALIAESORLQ VFLNTYGIQTQTPQQVEPIQIWPQQELVK VTLGAFGHEEEVISNPLSPRVIQNIYYKC NTHDEREAVIQQELVIHIGWISNNPELFS GMLKIRIGLQNECSLVIQVSTIPAT
2997	11048	A	3945	102	2392	RKQMNYSCLKQLKVFVTVAEKSFSSRAG ERIGLSQSAVSHSVKELENHTGVRLLDR TTRAVVLTDAQQLALRLERLLDELNST LRDTGRMGQQLSGKVRVAASQTISAHLI PQCIAESHRRYPNIQFVLHDPQQWVME SIRQGDVDFGVIDPGPVGDLQCEAILSEP FLLCHRDSALAVEDYVPWQALQGAKL VLQDYASGSRLIDAALARNGIQANIVQ EIGHPATLFPMAAGIGISILPALALPLPE GSPLVVKRITPVVERQLMLRVDLRFAQK FQIGDRKILRSGNNVAVNLPAAATCGFPFP VCCWRFAYGCCSALLRIPRLYSVFIISL LYGFSRAHJSSPGACWVFIHERFGQFMY GLYPHDQRWRINLALLIGLVSIAPMFWKI LPHRGRYIAAWAVIYPLIVWWLMYGGF FALERVETRQWGGLTLTLIASVGIAGAL PWGILLALGRRSHMPIVRILSVIFIEFWRG VPLITVLFMSSVMLPLFMAEGTSIDKLIR ALVGILFQSAYYVAEVVRGGLQALPKG QYEAESLALGYWKTQGLVILPQALKLE TVRQPQTLAMEEINCHHNYVQKEQHFG EIIYVTRKGAVSARAGQYGIIPGSMGAK SFIVRGLGNEESFCSCSHGAGRVMSTRK AKKLFSVEDQIRATAHVECRKDAEVIDEI PMAYKDIDAVMAAQSDLVEVIYTLRQV HSCRAGETGAVAPASDRGKGGDGNLRS NRGRRGAGVAASALPARHRARGRLPLC YR
2998	11049	A	3946	2	331	

2999	11050	A	3947	3	116	
3000	11051	A	3948	3	162	
3001	11052	A	3949	181	804	RPLPRIGCCGPGAGQVGEARSPRVSLCF APCRLLRAGGGRALRRRCGPTGPGVARP SYSSFTQGDWGEGEVDEEEGCDQVAR DLRAEFIMGQWSEPRKLSVLPDRNGS PVLDPKVRNGIFPSGRGQQEPSLRRWPFQ VLSILCSLLFAILLAFLLAIAYLIVKELHA ENLKNEDDVTGLLGFWTLLIISLTAGIL LLQLFLGQ
3002	11053	A	395	901	1213	SQHFRPRWADHLRSGV*DQPGQHDET PSLLKIQLAGYSGEHL*SQLLRRLRHEN CLNPGSGGCSEPRLHHCTPAW/VAEPDS VGGGVGGKEKNNTSNMLQTRP
3003	11054	A	3950	1	149	
3004	11055	A	3951	1	1896	
3005	11056	A	3952	3	275	
3006	11057	A	3953	2	395	
3007	11058	A	3954	1	209	
3008	11059	A	3955	466	3315	EMVPRWAIYQGFQDCLVHHASSRASGL WKLLNPCRGLRCPDTRLPTSRWPNRDR SASTQLLGKQSLPPAPEADPVFLPQEENE PPSPLVSGHIDYNMPLTSTYLKQMKLRV MNSQEAGSSPTPIQTERHTAQLLLTAD QTLVLPATQHYVVLKKFPRPGAEDIMSG GPTLEAAEFDDLIGKCLPDRPIAGSVRLG DRIWNPGRGSPRRCLHGQCVPGSLER RPRDYPITLQLWLARRQDPARCGLAHN DR
3009	11060	A	3956	11	755	ETHAPPSGVWGLERPSHPADQEIAGGQG QTAPAWEKPHSHPTPKSCGDQTKTLHT ERREDKPSFTRAGWGWENLKGPVTEG AGSPGGSSHGAGLNRDHPLQSQPGRRAI PWPQRAPTHMLFSMTRGQSPGAAPGAQ PEISKLAGEYKKQKKQRSCLRKKCHP/QE AGHRQRVAHSAGPLQGEAAGEGRGEG AFWLKARNKYSYSSGINIPPNGGAQGSC LGKVGCRRHDPRHSGLSAPFPRPMSQAL
3010	11061	A	3957	175	559	VKRQLRRLRRSPWPDEKPKGVKTENN DHINKVAGQDGSVEQFKIKRHTPLSKL MKAYCEVRQGLSMKQIKIPDFDGPVNE TDTPATVGKWKDERYQLMVFQQARPG GVYLKRELCFLYSQNSVSF
3011	11062	A	3958	140	380	
3012	11063	A	3959	98	426	LLTPSSSAALKGESVQWHLREAGQSLPR RLTCAGWNRFLHWIDQLSG*QTCLLL VVFVWIATE*LGESLPL*APIGGTQPW*F LIGAMKKHQUETGENDHFNSPGPSH
3013	11064	A	396	110	1012	KTTRGYTLHCAAAGWRLETALKALVEL DVDIEALNFRERARDVAARYSQTECVE FLDWAGLNPATHTDSDEEAFLTRVW STGHNDGKQRMGQKEIQNATSSNH TCPSSVTLQRKKG*FVGLLW*FRNVSTL LMKTFLPQARNSPPETPSGITITQITGKIC RMYFWSYMESEGPPESERAEFFSQE NEEEAAQEPEETGPKNPLLPALTGDVE GLQKIFEDPENPHHEQAMQLLLEDIVG RNLLYAACMAGQSDVIRALAKYGVNLN EKTTRGDTLLHCAAAGWRLET

3014	11065	A	3960	234	1050	ARTLKRRWKVRKTVIGRKVQTMKILETL RISALLWEEVLLGLKDKEGYTSFVND CISSGLRGILIELAMRGRIYLEPRTMRK KRLLDRRVLLKSDSPTGADVWDETLLKH IKATEPTETVQTWIELLTGETWNPFLQY QLRNVREIAKNLVEKGILTTEKQNFLLF DMTTHPVNTTEKQRLVKKLQDSVLER WVNDPQRMKDRTLALLVLAHSSDVLEN VFSSLTDDKYDVAMNRAKDLVELDPEV EGTKPSATEMIWAVLAAFNKS
3015	11066	A	3961	1	1074	MEPIGARLSLEAPGPAPFREAPPAEELPA PVVPCVQGGGDDGGGASETSPDAQLGD RPLSPKEE/CRPPGAGGAAGMPPLPRAL LFLARRPHL/VRRPSSCSSSSNRRWHWA A/SGAEDAQLGPGGCCAKCKKRVQFAD TLGLSLASVKHFSEAEPPQVPPAVLSRLR SPPMRAEDLEQLGGLLAAAAVAAPLSAP PSRLRPLQLPGPSAAAERLQQRVCLER VQCSTASGAEVKGSGRVLSCPGPRAVTV RYTFTEWRSFLDVPaelQPEPLEPQQPEA PSGASEPGSGDAKKEPGAECFHFSLCLPP GLQPEDEEDADERGVAVHFAVCYRCAQ GEYWDNNAAGANYTLRYARPADAL
3016	11067	A	3962	42	424	
3017	11068	A	3963	3	899	PPNVFSPASLPFFPAEGGPGRSRWREGG YLSQSRSGRLSQEEAASRSAGGMAGAPD ERRRGPAAGEQLQQHVSCQVFPERLA QGNPQQGFFSSFTSNQKCQLRLLKTLET NPYVKLLLDAMKHSGCAVNKDRHFSCE DCNGNVSGGFDASTSQIVLCQNNIHNQA HMNRVVTHELIHAFDHCRAHVDWFTNI RHLACSEVRAANLSGDCSLVNEIFRVQ FGLKHPPQTCVRDRATLSILAVRNISKE VAKKAVDEVFESCFNDHEPFGRIPHNKT YARYAHRDFENRGR\YYSNI
3018	11069	C	3964	165	347	
3019	11070	A	3965	871	1194	EFVFFFETESFSVTQLECSGHNGLGLHCN LHLPGSSNAPASASRVARITGAHHHARLI FVFLVEMGFHQTGWAMLVLKLPDIQVIC PPWPPQSAGIYRHEPQHPRK
3020	11071	C	3966	54	197	MVLSSFNQKAIKLALLKYFKISQFLPFP YVHKIGCRHSHFAMNVS**
3021	11072	A	3967	263	742	SRSHDHLTYVYVSPWNFFRALRISNSK NEMFMSFLFREMKKKKLPSDSGDLEAL EGKDKEKESTVHIETHQNTSKNVAAVQP MKR\GQKSKMKMKMKEY*QDEEDREL IMKLLGSAGSNKEEKGKGKKGKTKDE PVKKQPKPRGGQRVSDNIKKE
3022	11073	A	3968	189	1393	SHTDFPYDNSIDGGDTSSDEDKEEHETP VEVELMTQVDQEDITLQSGRDELNEELI QEESSEDEGEYEEV/REKDQDSVGEMKD EGEETLNYPDTYTIDL\SHLQ\QRSIQKLA SKEESSNSSDSKSQSRRLSAKERREMK KKKLPSDSGDLEALEGKDKEKESTVHIE THQNTSKNVAAVQPMKRGQKSKMKKM KEYKDQDEEDRELIMKLLGSAGSNKEE KGKKGKKGKTKDEPVKKQPKPRGGQ RVSDNIKKETPFLEVITHELQDFC/AVDD P/HLIDQGKEPDLQDQGGNEENLFDSDQ GQPHPEDVL/LGFAIPICAPYTTMTNYKY KVKLTPGVQKKGKAAKTALNSFMHSKE ATAREKDLFRSVKDTDLRNIPGVKSV CTQSSERKKEIAEMKF
3023	11074	A	3969	192	1510	
3024	11075	A	397	247	496	
3025	11076	A	3970	68	382	MSVPDEEERLLRLTQRWPRASKFLLSGC AATVAELGTRLPTPGPPGPVAAALGEE TAGAASRPGSAQSKRSPSHARLAEVAV

						EARPRGRRRDLEVSTAFSF
3026	11077	A	3971	3	1451	GAVRTWGRGFQTEKCCASLLNFWNPPT TAQVTIEAEPTKVSKGKDVLLVHNLPO NLAGYIWYKGQMKDLYHYITSYVVDGQ IIYGPAYSGRETIVYSNASLLIQNVREDA GSYTLHIVKRGDGTGETGHFTFTLYRH SLDSALSLEVTGSSQPL*DTWENCPTLW LHCLMTELTSGLDVLPVISAEPSPRS GFPVSKGFKDNWKFHPSLGCPWQGKL QRKHTSGGKVRLKLRRFQHCMLQVRTT SVETPKPSISSNLYPREDMEAVSLTCDPE TPDASYLWWMNGQSLPMTHSLQLSKNK RTLFLFGVTKYTAGPYECEIRNPVSASRS DPVTNLPLPKLPKYITINNLNPRENKDV LAFTCEPKSENYTYIWWLNGQSLPVSPR VKRPIENRILILPSVTRNETGPYQCEIQDR YGGIRSYPTLVNLVLYTTKHSGLYACSVR NSATGMESKSMVTKVSAPSGTGHLPLGL NPL
3027	11078	A	3972	1	1008	
3028	11079	A	3973	3	1374	
3029	11080	A	3974	1	1854	
3030	11081	A	3975	1	1319	
3031	11082	A	3976	1	2247	
3032	11083	A	3977	1	1993	
3033	11084	A	3978	1	1006	
3034	11085	A	3979	3	1095	AQLTAVLRKFLDPRLISTEENTQAAETM GPLSAPPCTEHIKWKGLLVASLLNFWN LPPTAQVTIEAQPPKVSEGKDVLLVHN LPQNLGTGYIWYKGQIRDLYHYITSYVVD GQIIYGPAYSGRETAYSNASLLIQNVRE DAGSYTLHIKRGDGTGRGVTYFTFTLYL ETPKPSISSNLPREAMEVILTCDPETP DTSYQWWMNGQSLPMTHRFQSETNRT LFLFGVTKYTAGPYECEIWEISGSASRS PVTLESP/RMGPDLPRIFFSSPLNYFRER NLGFVPGLGDF*TPPAQYSWTINGKFQL SGQKLFIPQITPKHNGLYACARSATGE ESSTSLTIRVIAPPGLGTFCFQ
3035	11086	A	398	653	1139	RPFPPHSESQNPQR/PDSSPTGTST*PA DTHCPRPVSAQGGTAEG**PRVHGPS PLPHSIGSAPPQCQEGAPAGEWAREPGE DGVVPGAPGQN*GKMEFSGAG/GQVPSR VVEGVQSHLRSEGPPACPAVPCAAEGP DGRPGNTGRGGPGLRNQRRWEEW
3036	11087	A	3980	3	1442	IRADPAHELENCSCPGKRLSTERGRTAQ LTAVLREFLDPRLISTEENTQAAETMGT SAPPCTQRIKWKGLLLTASLLNFWNLPT TAQVTIEAQPPKVSEGKDVLLVHNLPO NLGTGYIWYKGQMRDLYHYITSYVVDGEI IIYGPAYSGRETAYSNASLLIQNVREDA GSYTLHIKGGDGTGRGVTRFTLHLET PKPSISSNLPRETMEAVSLTCDPETPD ASYLWWMNGQSLPMTHSLKLSETNRTL FLLGVTKYYLQDPIECEIRNPVSASRSDP VHPGISCPKLPKYITINNLNPRENKDVL NFTCEPKSENYTYIWWLNGQSLPVSPRV KRPIENRILILPSVTRNETGPYQCEIRDY GGVRSDFVTNLVLYGPDLPRIYPSFTYY RSGEVLVYSCSADSNPPAQYSWTINEKF QLPGQKLFIRHITTKHSGLYVCSVRNSAT GKESKSMTEVSGKVDPKHRWQ

3037	11088	A	3981	79	1565	EASLLEDDDDGMVYLRPLTSHQYRTAQL RAMLRKFLDPRLSSTEENTQAAETMGPL SAPPCTQRITWKGLLLTASLLNFWNPPTT AQVTIEAEPTKVSKGKDVLLLVHNLFPQ LAGYIWKQGMKDLHYHITSYVVDGQII IYGPAYSGRETVYSNASLLIQNVREDA GSYTLHIVKRGDGTRGETGHFTFTLYLE TPKPSISSNLYPREDMEAVSLTCDPETP DASYLWWMNGQSLPMTHSLQLSKNKR TLFLFGVTKYTAGPYECEIRNPVSASRSD PVTNLNLPKLPKPYITINNLPRENKDV AFTCEPKSENYTYIWWLNGQSLPGSVP RVKRPENRVLIFTPCSRGIETGPHYQCEI VRDLWVGLRSLPSSPWNVPLMGPDLPRI YYPYFTYLPFQGGKPSDLSWLSRES*PHR AGVFFWGQFNGGSFSGIQGQKLFIPQITT KHSGLYACSVRNSATGMESSKSMTVKV SAPSGTGHLPLGLNPL
3038	11089	A	3982	1	2045	MLEAAVHAPGNSDVTRTRCATQVLKPL VSYGQAETGFSVPQLKYPPWDGLLRDI PPGTLPEHSPCSLAALQFLNATSTHGE SAFARRKLESSFSQHSLQEGHRHGSRLSP SGAPVKDSGSRTPAGSRGGQHPQQLL CGRDDLQASSGHGPFLLFPPELSPRDA LQLLREASKFPTDKRQGRWSVAITNTA ATSLEWVPFHAFAPRSTLVSQRLSTER GRTAQLTAVLREFLDPRLISTEENTQAAE TMGTLSAPPCTQRIKWKGLLLTASLLNF WNLPTTAQVTIEAEPTKVSEGKDVLLLV HNLQNLGTGYIWKQGMRDLYHYITSY VVDGEIUIYGPAYSGRETAYSNASLLIQN VTQEDAGSYTLHHKRRDGTGGVTGHF TFTLHLETPKPSISSNLPREAMEAVILT CDPATPAAGYQWWMNGQR/LSPMTHR LQLSKTNRTLFIQVTKYIAGPYECEIRNP VSAISRSDPVTNLNLPKLPKPYITINNLP RENKDVLFNFTCEPKSENYTYIWWLNGQ SLPVSPRVKRPENRILIPSVTRNETGPY QCEIRDRYGGIRSDPVTNLVLYGPDLPRI YPSFTYYRSGEVLVLSCFADSNPPAQYS WATINGKVFSLAQGGKLSIPQITTKHSGLY ACSVRNSATGKESSKSITVKVSDWILP
3039	11090	A	3986	212	461	TEEHLYSPHWKGCGRKVKRLFQVRRGR GWIQTRQPGSMVKEPPLSEAGAESHVSC /RQGDCSRPPSPFLSPERVTPWLPDSHTW

3040	11091	A	3987	1	2353	MRPPRAPVVPDLGGPRLCPVPAAGGAR SPSSPYSVETPYGFHLDLDFLKYIEELER GPAARRAPGPPTSRPRAPRPLAGARS PGAWTSSESLASDDGGAPGILSQGAPSG LLMQPLSPRAPVRNPRVEHTLRETSRRL ELAQThERAPSPGRGLVREQMAAALRR LRELEDQARTLPELQEQVRLRAEKARL LAGRAQPEPDGEAETRPDKLAQLRRLTE RLATSERGGRARASPRADSPDGLAAGRS EGALQVLDGEVGS LDGTPQTREVAEEA VPETREAGAAVVPETREAGVEAAPETVE ADAWVTEALLGLPAAARELELLRASLE HQRGVSELLRGRLELEEAREAAEEAAA GARAQLREATTQTPWSCAEKAAQTESP AEAPSLTQESSPGSMDGDRAVAPAGILK SIMKKRDGTPGAQPSSGPKSLQFVGVLN GEYESSSEDTNDSGDSENGGAEPGGS SSGSGDDSGGSDSGTPGPPSGGDIRDPE PEAAEAPQQAQGRCELSPLREACVAL QRQLSRPRGVASDGGAVRLVAQEWFRV SSQRRSQAEPVARMLEGVRRLGPELLAH VVNLADGNGNTALHYSVSHGNLAIASLL LDTGACEVNRQNRAGYSALMLAALTSV RQEEEDMAVVQRLFCMGDVNAKASQT GQTALMLAISHGRQDMVATLLACGAD VNAQDADGATALMCASEYGRLDTVRL LLTQPG\CDP\SILDNEGPSALAVALEAET GMKVAALL\HAHLSSGHPDTQSGVTPLA PQTANTW
3041	11092	A	399	2	510	FLANFLCFIRD/GFHHVGQDGLHLLTS*S ACLGLPKCWDYRREPLRPTSPLLSRPHQ ALCCLAFGHSAATCTCVN/SALAWAGF WNPQAPGF/SVAPAHLLTHTVSLSPMPL WATCSPGAGHEAPGLMLQDPFGPPWCS CGPVFHEKTAGCKARAFSGRVCCKAQ ALPETGR
3042	11093	A	3990	53	364	RSKVEAGLAPEPGPLGARVGS/PGTRAR HGRPG\PA\GASIGPGCGPNEQVDEQAGP AQLQGPQGPAPRAIGFPHLRLLGGSCKI KGDGPGVRRPGSDRLSSSSPT
3043	11094	C	3991	408	620	
3044	11095	C	3992	64	300	MDSSHSTTLXPTANPNTGLVEDLDRTGP LSMTTQQSNSQSFSSTSHGLEEDKDHPT TSTLTSSNRNDGHRWKKRPKSF*
3045	11096	A	3993	1	530	
3046	11097	A	3994	1	436	
3047	11098	A	3995	3	1009	
3048	11099	A	3996	1	2226	
3049	11100	A	3997	2	1599	QLPGSVRHPRPVLRRPLPRAQSSSSFR PRPPFAPDTMDKFWWHAAWGLCLVPLS LAQIDLNITCRFAGVFHVEKNGRYSISRT EAADLCKAFNSTLPTMAQMEKALSIGFE TCRYGFIEGHVVIPRIHPNSICAANNTGV YILTSNTSQYDTYCFNASAPPEEDCTSVT DLPNAFDGPITITIVNRDGTTRYVQKGEYR TNPEDIYPSNPTDDDVSSGSSSERISSTSG GYIFYTFSTVHPIPEDDSPWITDSTDRIPA TNMDSSHSTTLQPTANPNTGLVEDLDRT GPLSMTTQQSNSQSFSSTSHGLEEDKDH PTTSTLTSSNRNDVTGGRRDPNHSEGSTT LLEGYTSHYPHTKESRTFIPVTSKATGSF GVTAVTVGDSNSNVNRSLSGDQDTHFPS GGSHTHGSESDGHSHGSGQEGGANTTSG PIRTPQIPEWLILASLLALALILAVCIAVN SRRRCGQKKLVINSNGGAVEGRKPSGL NGEASKSQEMVHLVNKESSETPDQFMT ADETRNLQNVDMKIGV

3050	11101	A	3998	245	1148	FPGSTPTPFAPDTMDKFWHAAWGLCL VPLSLAQIDLNITCRFAGVFHVKEKNRYS ISRTEAADLCKAFNSTLPTMA\QMEKALS IGFETCRYGFIEGHVVIPRIHPNSICAANN TGVYILTYNTS QYDTYCFNASAPPEEDC TSVTDLPNAFDGPITITIVNRDGTTRYVQK GEYRTNPEDIYPS\NPTDDDVSSGSSSEAR EST\SGGYIFYTFTSTVHPIDEDSPWITDS TDRIPATRDQDTFPPQWGFPLPLHGSEFR WDTHMGSGQRWEQTQPLGPIRDTPN SQ NGLIHLGHPLLALGL
3051	11102	A	3999	3	327	AGPGEVAGDGRDSGGPAGGRRRCWLNW SGSGKSLRKGNPSVSIYCFCLPNHYLFDR N\SLRSSAGTKSGSYPPQISSMLILVPP CVPQQTHPGLDLKTQKLSLSALI
3052	11103	B	4	3508	3762	MTPGVVHASPPQSQRVPRQAPCEWAIRN IQQKPKEPNCHNCGTHIGLRSKTLRGTPN YLPIRQDTHPPSVIFCLAGVGVPGLPV*
3053	11104	A	40	25	412	IQARKKQQSVLGIKTEDQGTNLLRKGI MDIEAYLERIGYKKFTSKLDFETLTDILS HQIPAVSFDNLTVLCGDAMDGLAEAFD QAVR*NR\GGWNLQVNHLLYWALTIG YETTKIGRYGYQTPAEK
3054	11105	A	400	249	434	IVEYRGMWDYRLLFFFPETESCSVAQVG TQWHDLSLQPLSPGASSNSPASAS*VAGI TGTH
3055	11106	A	4000	8	280	SAQMAVTTIADPRVRPRVRTTVFTSIAHT DTMVHLTPVEKSAVTALWAKVNVNEV GGEAPGQGCWVVLPLGPPKGPLKPFGGI CPNSLNAG
3056	11107	A	4001	405	647	
3057	11108	A	4002	405	606	
3058	11109	A	4003	1	849	
3059	11110	A	4004	2	1173	PQQSPECVPLPVSVCSHWSIPTSHRLLR VLVTVECELYVRWPRCNADLTCTKAVQ NGWDLKVP TCLHLLAVPGVGLFIDEG VKQGFVETFRDTRGVLVHGCIMSCLCN NRVRPYLGKKQKSKKTTDVGVEVEESG RGCAAGAEVFQCMQQGSHSAAEGQES SSKVESGRHSYNLYLWVISPRTPASLON LQILKCIRFWTWHEERFLYMLMEYVPGG ELFSYLRNRGHFSSTTGLFYSAEIIAIEY LHSKEIVYRDLKPENILLDRDGHIKLTD GFAKKL\AYRLMWKSLLEKRWVWRCG GEAKER*Q*QQFGWVPASRKVRS*SQDT CPHHRKQGRRLRTWTL CGTPEYLAPEVIQ SKGHGRAVDWWALGILIFEMLSGWVL
3060	11111	A	4005	149	1358	APPSHCLCVSVSRAEPRTQRRGRAWGAS VDAAAAAAPPSEAA SRGVRLPERSGLAR RPGPECLPMEAPGPAQAAAAESNSREVT EDAADWAPALCPSPEARSPEAPAYRLQD CDALVTMG TGTFGRVHLVKEKTAKHFF ALKVMSIPDVIRRKQEQHVHNEKSVLKE VSHPFILRLFWTWHEERFLYMLMEYVPG GELFSYLRNRGHFSSTTGLFYSAEIIAIE YLHSKEIVYRDLKPENILLDRDGHIKLTD FGFAKKLVDRTWTL CGTPEYLAPEVIQS KGHGRAVDWWALGILIFEMLSGFPPFFD DNPFGIYQKILAGKLYFPRHLDFHVK/DG ANDVNHRWFRSVDWKAVPQRKLKPI VPTIAGNGDTSNFETYPEHDWDTAAPVP QKDLEIFKNF
3061	11112	A	4006	1	683	

3062	11113	A	4007	521	1163	SQDTCPHHRKQGRRLRTWTLCTGPEYLAP EVIQSKGHGRAVDWWALGILIFEMLSG AFPKHVSSNASPGLQNWGRFPFFDDNP FGIYQKILAGKLYFPRHLDFHVCKQTPK EKQKTKNKVIFLHARHQKQNKNTNNNN SNNKMKFIKNGANDVKHHRWFRSVDW KAVPQRKLKPPIVPTIAGNGDTSNFETYP EHDWDTAAPVPQKDLEIFKNF
3063	11114	A	4008	181	1448	APPSHCPRRSVSRAGPRTTRRRERAWGAS VDAAPSEASREARLPERSGLARCP GPECVMEAPGLAQAAAAESDSRKVAE ETPDGAPALCPSPEALSPEPPVYSLQDFD TLATVGTGTGFRVHLVKEKTAKHFFALK VMSIPDVIRLKQEQHVHNEKSVLKEVSH PFLIRLFWTWHDERFLYMLMEYVPGGEL FSYLRNRGRFSSTGLFYSAEIIAIEYLH SKEIVYRDLKPENILLDRDGHILTDGFG AKKLVDRTWTLCTGPEYLAPEVIQSKGH GRAVDWWALGILIFEMLSGFPFFDDNP PFGIYQKILAGKUDFPRHLDFHVKD/LIK KLLVVDRTRRLGNMKNANDVKHHRW FRSVDWEAVPQRKLKPPIVPKIAGDGD SNFETYAPENDWDTAAPVPQKDLKIFKNF
3064	11115	C	4009	3	167	MPMXAQIEEPQPIQVKTRTNLRLTQRE QDQTKCLCPLYNQAPRKKFLLWA*
3065	11116	A	401	532	986	PWAKLGLSCVPAWQVQVLAICRWKEVG ILDFFLVFFFLR*SL/DSDTQAGVQWC DLGSLQTPLPFGKWFSCPSLPSSWDYRH APPRSADFCIF/M*RWGFTMLAKLVNS* PQ/CDLPASASQSAGITGVSQCTRRNLGIF IDGTSVSDSRT
3066	11117	A	4010	1	2195	MDPGTLQSASQGTAINPCDYVLKRRNI QTSWQRLTPIIKWHVYILMIGPGEKEAG RNLGIFGKWTPFPKIPAKRLRESNCPVDA QEIWLPQAFREYLGRRGNFGPGRRTCEF WEVESICSVESWELWLRQADSGDSGKC SPDACGIIDTSGLRAGHCYLTRLWHVSG RIPPSFKLHHPGVCKFKPVGGKMTTFKE AVTFKDVAVVFTEELGLLDPAQRKLYR DVMLENFRNLLSVGHQPFHQDTCFLRE EKFWMMGTATQREGNSGGKIQTELESV PEAGAHEEWSCQIWEQIAKDLTRSQDS IINNSOFFENGDVPSQVEAGLPTIHTGQK PSQGGKCKQSFSDVPIFDLPQQLYSEKS YTCDECGKSICYISALH/HQRVHMGEKC YKCDVCGKEFSQSSHLQTHQRVHTG/EK PFKCG/Q/CGKFSRRSALNVHHKLHTGE KPYICEACGKAFIHDSQLKEHKRIHTGEK PFKCDICGKTFYFRSRLKSHSMVHTGEK PFRCDTCDSFQRSALNRHCMVHTGE KPYR/CEQCGKGFGRDLFYKHQVVHTG EKPYNCKEKGKFSRWSSCLLNHRVHS GEKSFKCECGKGFYTNSQLSSHQRSHS GEKPYKCECGKGYVTKFNL/DLHQRVH TGERPYNCKEKGKFNFSRAS/SILNKHRL H/SPEKNPFKCEDCGKRLVHRTYRKDQP RDYSGENPSKCEDCGRRYKRRNLNDILL SLFLNDT
3067	11118	A	4011	1	4559	MDGAKAFSAVAAGFVILTCQLQWQW QHGGVHAHQLWQLASGYRDACFCVST YSSGPSEFPGLTLNELAIDLEERKHR RKAKVWKGEGLRSPRQSLLAFRAVL ASRGTRSCHVSPYLGVSALSSPNPHST TGAGPIPPVQRWGLPQINQKNREIAIPLT LGMSTHLRRGCKNMSRFSPLHCCTTPIS TNFTDPGSHCKGAHGDICLLIQNLKGAL PMSINRSYFNAHPLLQISEAVTFKDVAV VFT

3068	11119	A	4014	1	1387	FRAASGRETRAALGASQCLTPHPLPRVG GGGASGGGLRGAGQAWSAMSSPDAGY ASDDQSQTSALPAVMAGLGPCPWAES LSPIGDMKVKGAPANSAPAGAAGRA KGESRIRPMNAFMVWAKDERKRLAQQ NPDHLNAELSKMLGKSWNAITLAEKRP LVEEAERLRVQHMQDHPNYKYPRRRK QVKRLKRVGGFMHGMDEPQAAAMGP EGGRVAMDGLGLQFPEQFPAGPPLLP HMGGHYRDCQSLGAPPLDGYPLTPDTS PLDGVDPDPAFFAAPMPGDCPAAGTYSY AQVSDYAGPPEPPAGPMHPRLGPEPAGP SIPGLLAPPSALHVYYGAMGSPGAGGGR GFQMOPQHQQHQQHQQHPPGPGQSP PEALPCRDTGTPS/QPAELLGEVDRTEFE QYLHFACKPEMGLPYQGHDSGVNLPDS HGAISSEVS DASSAVYYCNYPDV
3069	11120	A	4019	77	407	ESDGGKRKKKSRGDPSQLEEKISKGCPQ RRKKPRLYRPSNYNRAFRMR/ARLPT RTSPETRTQP/SPHS/PERTPTPPGRPP FLGAGQLQRLFMGIPQVGDCCPPSS
3070	11121	A	402	2	992	FVDAAGCPLRCSVVTGIVVLQKSGNRPE DLRAAQLPGRLELLNNFCSAMSPAPDA APAPASISLFDLSADAPVFQGLSLVSHAP GEALARAPRTSCSGSGERESPERKLLQG VLWTISEKLFCTCDQTFQNHQEQREHY KLDWHRFNKQRLQGGQPLLSALGL*KA ELHRRSFP/AFSGIRRIQDSASEEDLQTL RERATFEKLSRPPGFYPHRVLFQNAQQG FSLCLPLCPR/LLIRIPQKRQNLRLTRTLQS RGPRDCVVLMAAAGHFAGAIQGGREVV THKTFHRYTVRAK/QGHSQGAFG/NARG GPHSAGANLRYNEATLYKVS
3071	11122	A	4020	20	463	
3072	11123	A	4021	572	1594	SSDWKRTMSWIKEGELSLWERFCANIHK AGPMPKHIAFIMDGNRRYAKKCQVERQ EGHFTGFKQ/LAETLRWCLNLGILEVTY AFSIENFKRSKSEVDGLMDLARQKFSRL MEEKEKLQKHGVCIRVLGDLHLLPLDLQ ELIAQAVQATKNYNKCFLNVCFAYTSRH EISNAVREMAWGVEQGLDPSDISESL DKCLYTNRSPHPDILRTSGEVRLSDFLL WQTSHSCLVFQPVLPWEYTFWNLFMAIL QFQMNHSLVQKARDMYAEERKRQLE RDQATVTEQLLREGLQASGDAQLRRTRL HKLSARREERVQGFLOALELKRADWLA RLGTASA
3073	11124	A	4022	2	365	
3074	11125	A	4023	1	464	RRWRICSTWTRSFATAWLPPAPSANFPR TDRSQDGRGAPAGFALAPIEFFLWDTS SQKFLQKPHCFMHGRERAKMGRRAQQE SAQAENHLNGKNSSLTLTGETSSAKLPR CR/QGGWAGDSVKASKFRRKASEIEDF RLRPQSLNGSDYGGDIP
3075	11126	A	4024	254	662	
3076	11127	A	4025	3	392	MKYSAIQTLDEIDLKLLTKVLAPHEV R*VQWWQQFPGLSTLAIPINPAELGLAL CLP*RPWNGREKVSQLEKALSLSYPA KPFL/EDDVGWWDH/LFTEVSSEVLTE/ WDPLQTEKEDPAGQARHT
3077	11128	A	4026	63	779	GPIRGPWGPGFGGWGGATPPAPTSRLRL RAAGLAPRRRAKMGRRAQQESAQEN HLNGKNSSLTLTGETSSAKLPRCRQGGW AGDSVKASKFRRKASEEIEDFRLRPQSL NGSDYGGDIPINPDLEEVQEEDFVLQVA APPSNIQIKRVMTYRDL/DNDLMKYSAI QTLDEG/IDLKLL/TPKVLAPHEVRE NPSWQDDVGWD/WTHLFTEVSSE/VSFT EWDPLQTEKEDPAGQARHT

						EWDPLQTEKEDPGGQVARHT
3078	11129	A	4027	2	311	
3079	11130	A	4028	1	136	
3080	11131	A	4029	2	170	
3081	11132	A	403	2583	3827	DRVSLLLPRLECNGAILAHCNLC/SGFK *FSCLSLPSNWDYREVPPHQLIFVFLVE MGFHHIAQAGLELLTS/SI/PPTLA/FPKC WDYRR/DHHAWLFFCSEVNSFTLLPRLE *GGLISDHCNLRLLGSSDLPASASQEPRL QACATTPR*FLYFW*RRGFTMLARLVLN S*PQV/HPPASASQSAEIIQVSHHTWPQEV FLFLNLFYLRWSLALSPRLECSGDGSAH CKLRPPGSSVLLPQPPE*LGLQAPATTPG* FFCIFSRRDGFSPC*PGGS*SPDLVICLPRPP KVLGLQV*ATTPGYFYFFETGTHSVTWA AVQWYTIAHCSLELLSSSDPPTSSSQVIG TTGAPHHAHLIYLFYLFIFIEMRVPCVV QAGLELLSSRDPAWASQSAEITGMSHR AQLGIIFKAPRMSV
3082	11133	C	4030	64	276	MCKALGTPYSPQQQLGTEASSVHRTC WHLLGQGSAAARXXXXXXXXXXXXXXXXX XXXXXXXXVSDPTTQ**
3083	11134	A	4031	3	295	
3084	11135	A	4032	3	279	
3085	11136	A	4033	3	392	RIRHEAAAKGAAAMSAHLQWMVVRNC SSFLIKRNKQTYSTEPNNLKARNSFRYN GLISPARLWGVEPAADGKGVVVVIKRR RSGQR/KPA/TSYLRTTINKNARATLSSIR HMIRK\NKYRPDLAHGHAGI
3086	11137	A	4034	2	562	VAAAKGSRRQCLRLQWMVVRNCSSF LIKRNKQDPTALSPNNLKA/RNSFR/YNG LIHRKDCGTWSRSADGK\GVVVVIK\RR SG\QRKLATSYVAGPPSTRNARSHASGR HQ/VHIDPARNKLPPPTCRMGSPFRAQR PFLAQAGRLVDWLKEGRRDPAPRSSLK PLGPQKQLKSAGVFSKKKKKSR
3087	11138	A	4035	1	139	
3088	11139	A	4036	1	299	VGIW*PVTNFGVISGTAIEMD*G/TPYIH ALTNGLLTVEAPHK/ERIALKPGYGKYL INSDELVV/GRSDAIGPREQWEPVFQNDG HPVMRMNSLQKATI
3089	11140	A	4037	796	911	AMA*YSYVKSSKLVLKGT\SKKKKSTDK KRKREDEETQLD/IVGIW*TVTNFGEISG TIAIWNGRKGTYIHALDNLFTLGAPHK /ERIALKSGYGKYLGINSDGLVVGRSDAI GPREQCEPVFQNGKMALLASNSCFIRC EAGDIEAKSKTAGEEEMIKIRSCAERETK KKDDIPEEDKGNVKQCEINYVKKFQSFQ DHKLKISKEDSKILKKARKDGFLHETLAL DRRA\KLEADRYCK
3090	11141	A	4038	193	754	EPSRGVWPHEARINGSKSKKKKSEKKR KREDEETQFD/IVGIW*TVTNFDEISGTI AIEMDEGTIHALDNLFTLGAPHKEGK MALLASNGCFIRCNEAGDIEAKSKTAGE EEMIKIRSCAERETKKKDDIPEEDIGNVK QCEINYVKKFQSFQEHKLKISKEDSKILK KAQKDGLHETLLDRGP

3091	11142	A	4039	213	919	YVQSLKQILS/GCI*ESIAIKKKKNKDKKR KREDEETQLDIVGIWWTVTNFGESGTI AIEMDKGTIHALDNLFTLGAPHKEVD EGSPPEQFTA/VKLSDSRIALKSGYGKY LGINS DGLVVGSRDAIGPREQWEPVKI MGKMALSTSNCFIR/HEAEDIEAKSKT AGEEEMIQGSP*SSVQPFHLLWTFILIT QEHRSLLLKIRSCAERETKKKDDIPEEDK GNIKQCEI
3092	11143	B	404	1	336	MGRARWLT/VIPALWEAEAGGSREVEE YMGAEAVKSWTSSMFKEWDEKVRREK TSSRRARAAQCGGVFESPEYVHLLKVFL EDLDKQQQTNSKASRRQEIIRAELEIK T*
3093	11144	A	4040	802	1463	AEATALENPLEESRPHEARINGSKKKK SKDKKRKREDEETQFD/IVGIWWTVIN GGISGTIAIEMDEGTIHALDNLFTLGA PHK/ERIALKPGYGKYLINSDELVV/GRS KAIGPREQWEPVFQNGACAAGFTVIGSE KQSECSLLRESRAKYHGCTHGQISSLK QHPRWMYSHQEDLKVWSLVEKKVTFE HIYLLKRNNSHHSIAEAMYGRLSNYI
3094	11145	A	4041	879	1051	GGARYHFFFFFFFDGACSVTQAGVQWP ILGSLQPPPRFKQFSLSLPSSWDYRRD
3095	11146	A	4042	125	1366	RDSSSTLSHKSACACGFFPSTHSGTF RFTSVRCLKYKSAKSLHIGYREAAVWC CQRLVPCTRRTQESSLDFATNLQHSWS RLCRRGASRTSSAARSRSRSPAVEGCNR SPGAPQAPARRRRPSRGAPGRAMVKV AVFNSALAQKEAKKDEPKSGEEALHPPD AVAVDCKDPDDVVPVVGQRRAWCWM CFGLAF/MLAGVILGGAYLYKYFALQPD DVYYCGIKYIKDDVILN/ESPSADAPAA LYQTIEENIKIFEERRSLNFISVPVPEFAD SDPAKIVQDFNQETYRPLYDFNLADKCY VIP/LNTSMCYATPKTLELLINIKAGNLF ALSPYLDMSMRHMGYLLDRIENIDHPGF FIYRLCHDKETYKLQRRETIGIQKREAS NCFAIRHFENKFAVETLICS
3096	11147	A	4043	42	557	QAGKL R P G G L D S R S R S S A A G L D R D Q G L H R V A F L P K R R T G G T R M D R S A T A A T A P P A A P A G E G G P P A P P P N L T S N R R L Q Q T Q A Q V D D V D I M R V N V D K V L E R D Q K Q S E L D D R C / A D A L Q A G A S Q F E T S A A K L K R K Y \ W W K N L K \ M M I L G V I C A I L I I I V Y F Q H L N P R G V C P A
3097	11148	A	4044	178	731	SSERCHQQVFIPMPALPPGFSQAGSCVP TGSSLVL\CLLAASLLFVPTLALLTGATT CWCLHNKRLAV/RRPLAWAGAFGLVS TRLIHGR\TSFYFNSLP\Q\TNSSTC\QNH SWDSGGRGDLPWPLAAPRRVGLDLCSC QAHTCQQGADWIHALLCLMGVTGVPTA LPAKHLEQNTSPFVVD AE
3098	11149	A	4045	3	155	
3099	11150	A	4046	100	448	WWEVKGM SHGQKNKQEGGAHFRACV CVMESHSVTRLECSGAISAHCNRLRQGS SNSPDSASRVAGTTSTRHEAQLIFVFLAE TGFHHVGQA ALELLTSSDPPTSASQSAD MLYK
3100	11151	A	4047	151	461	RLTAAATASLCPLRPVTRLPLSRGSKM KEGMSNNST\SISKPRKAVEQLKMEAC MDRVKVSQAAAD\LLAYCEAHVREDPLI IPVPASENPFREKKFFCTIL
3101	11152	A	4048	1	447	
3102	11153	A	4049	553	1938	
3103	11154	A	405	2	313	FFFFLRRSLALSPRLECSGVISAHCKLRLP GSR/RFSCLSLSHSWDYRRPPRPANFLY FLVEKGFGHCVSQDGLHLLTS/AIPP/TS/A/F

						PKCWDYRCDSMNFLMVSKD
3104	11155	A	4050	303	478	DCTSRPSLCPLSARCDVHGLSPGPPELVR* GLIVIEDALPKSHSGGRGEVRQPWDFCG A
3105	11156	A	4051	458	964	DPRTMNLAIISIALLLTVLQVSRGQKVTSL TACLVDQSLRLDCRHENT/SAVSPIQYEF SLTRETKKHVLFGTVGVPEHTYRSRTNF TSKYNMKVLYLSAFTSKDEGTYTCALH HSGHSPPISSQNVVPFRDHGVKCEGISL LAQNASWLLLLLLLSLLQATDFMSL
3106	11157	A	4052	411	557	YSTDELPNIKISTSGRLQWLMSHPALWE A/EDQAGRSFEFRNLRLVWTT
3107	11158	A	4053	508	1220	PLPPAATPCPKQLGSQAWACRAARGA EQGVWGWKRHPAPSRGRVDKGSTKQK DPSAHTTSTLNYQMHSCH/HKRRHTHT HTHTHTHTHTHTHTRQHNIPGSPDQE EAGQVVEKKAANPSHNPTLQDRRVSSIL SCCKRKLEAPSPEQISMVGPRGSNLWFP HWQRRQEPAKCSFGLKEQWGGDFSRM NRLMGPVNPSTSPWRSRLLHGKDVR CWLHRRAKCLSARCPRIWRVW
3108	11159	A	4054	1609	1807	DRVWLLPRLEYSGMVSAHCNTHLLGSS QSPTSASQAAGTTGAHHYVPQLVYIYIY ILGFLVETRFR
3109	11160	C	4055	169	297	MILEFHXXXXXXXXXGGGRFKEPLGGPNLP GAGKVLFFSLWGAD*
3110	11161	A	4056	270	614	PFKFILITQVIRDPLFSSEPYLGEKANHPP GFHHVKGQQASHVCKTHPAPSCP/PDC CLPCPSLGPAPHFRGCCMEFPGKNFRC LDPFYLDNIFRFFCSLVTYPGGKEIARTFF
3111	11162	A	4057	637	890	TKWAGSIVYLSFSFLHMFMSFLLLV/STF LALCMLILVVLFLKLPPKLFSELPLKL TFLPCELLHLHLLFQDLAYFFNGLRK
3112	11163	A	4058	3	297	ATAARPCPLGRRAGESRGPGHIGVRPVG STLCQIATCHMSVNDGGCKYVLCRWE KRLWPAKVLARTATSTKNRRKEYFLA VQILSLEEKLSVVLV
3113	11164	A	4059	2	1940	CPGLGRRAGESRGPGHIGVRPGSTLCQII ATCHMSVNDGGCKYVLCRWEKRLWPA KVLARTATSTKNRRKEYFLAVQILSLE EKIKVKSTEVEILEKSQIEAIASSLASQNE VPAA/PPEELAYRRSLRVALDVLSECSI WSQESSAGTGRADRSRLRGKPMHEVSSPC DSNSSSLPRGDVLGSSRPHRRRPCVQSSL SSSFTCEKDPECKVDHKKGLRKSENPRG PLVLPAGGGAQDESGSRIHHKNWTLASK RGRNSAQKASLCLNGSSLSEDDTERDM GSKGGSWAAPSLPSGVREDDPCANAEG HDPGLPLGSLTAPPAPEPSACSEPGECPA KKRPRLDGSQRPPAVQLEPMAAGAAPSP GPGPGPRESVTPRSTARLGPPPSHASADA TRCLPCPDSQKLEKECOSSESMGSNSM RSILEEDEEDEEPPRVLLYHEPRSEVGM LVWHKHKKYPFWPAVVRVSRQRDKKA SVLYIEGHMNPMMKGFTVSLKSLKHFDC KEKQTLNQAQREDFNQDIGWCVSLITDY RVRLGTWGAGEGWSWAAGVQPLKTPW TGWAGAAWRRGIFPWA WGIPCGWAGV LAWPDYFLNRDAGPAPGTHFLGLLGLH SALSPPPPAGCGSFAGSFLEYAADISKS TGCI

3114	11165	A	406	4565	5027	LIGYILFCFFFFFFFLRQSLVLLPGLECSG VILAHCNPR/LPGFK*FSCLSLPSSWNYR HAPARPVSFVFLAEMGFHHIGQAGLKL LT/SV/IPPTSA/FRKCWDYRREPPRPTA/F FVLNKFTVLGNSNGF*T*DRHINHFMRLY CNYTLEYSGSHL
3115	11166	A	4060	1	2722	MERPLRGSRHPRLPVPPGVLGPGSQGHIG VRPGSTLCQHATCHMSVNDGGCKYVL CRWEKRLWPAKVTAII/RVTSGLRNDFR VTKTSVTGPSILKYLVFEPVTLNQRITFK RQITDDQAAHCSAPIKVKSTEVEILEKSQI EAIASSLASQNEVPAAPLEELAYRRSLRV ALDVLSEGSISQESSAGTGRDNRSRLRG KPMEHVSSPCDSNSSSLPRGDVLGSSRPH RRRPCVQQLSSSFTCEKDPECKVDHKK GLRKSENPRGPLVLPAGGGAQDESGSRI HHKNWTLASKRGGNSAQKASCLNGSS LSEDDTERDMGSKGGSWAAPSLPSGVR EDDPCANAEGHDPGLPLGSLTAPPAPEPS ACSEPGCEPAKKRPRLDGSGRPPAVQLE PMAAGAAPSPGPGPGPRESVTPRSTARL GPPPSHASADATRCPLCPDSQKLEKECQ SSEESMGNSMRSILEEDEEDEEPVRLL YHEPRSEFVGMLVWHKHKKYPFWPAVS WDESTRGWISRLKAAFRTIALHIPKSNAQ NRCHLTSPSLRVGAHLRSDQPKPSGPR CPPAFRPAQAIGSPVPTCVQISPSHRVPG AHLRSDQPKPSGPRCPPFEQLRAQTCAW CVSHLPEGPCARRLEPPPLSGRNQAREDF NQDIGWCVSLITDYRVRLGCGSFAGSFL EYYAADITSRACPGALIPWATSSVSLLW LVAAHIRCCECRPGASFAGYPVRKSIQ QDVLGTKLPQLSKGSPEEPVVGCPQGQR QPCRKMLPDRSRAARDRANQKLVEYIV KAKGAESHLRAILKSRKPSRWLQTFLLSS QYVTCVETYLEDEGQLDLVVKYLQGVY QEVGAKVLQRTNGDRIRFILDVLLPEAII CAISAVDEVYKTAEEKYIKGPSLKLPG KRNI
3116	11167	A	4061	57	235	
3117	11168	A	4062	754	1767	WTSWWMSSVLTILLFSLQGNKMLNYS PSAGGCLLDRKAVGTPAGGGFPPRRHSVT LPSSKFHQNLSSLKGEPAALSSRDSR FRDRSFSEGGERLLPTQKQPGGGQVNSS RYKTIELCRPFEENGACKYGDCKQFAHG IHELRLTRHPKYKTEL CRTFTHTIGFCPY GPRCHFIHNAEERRALAGARDLSADRPR LQHSFSFAGFPSAAATAAATGLLDSPISI TPPILSADDLLGSPTLPDGTNNPFAFSSQ ELASLFAPSMGLPGGGSPTTFLFRPMSES PHMFDSPSPQDSLSDQEGYLSSSSSSHS GSDSPTLDNSRRLPIFSRLSISDD
3118	11169	A	4063	568	715	
3119	11170	A	4064	65	347	GLPAPLPPP/PPRSLPFPAPGLRSQRFSTSA PPRHARPPPVARARAAPHPQASGRKSQ VSAPLVERAPLRAPGLTATAVVTVLGDP ACAFPLEM
3120	11171	A	4065	1648	1974	KVFFCFYRIYVCICVCVCVCVC/TLQTL/C YSIANMLTSSQCLQSCGSQSWCMHIKS SKAIMTIPCKFISRKPWEGDCSSLEPHGV SAFDIWWPQLCIKKVLNHFSPRKN

3121	11172	A	4066	12	1662	FLRGGCCFCYMTQRPSSLRPTALLPERS VPPLPPAAPPRPVRHPPVAAPPARRCPAP APPPFPDDWVWMLDMGDRKEVKMIPK SSFSINSLVPEGLQNDNNHASHGHHNSH HPQHSHHHHHHHHHHPPPAPQPPPPRAA QQQQPPPPPLAPQAGGAAQSNDEKGPQL LLPPTDHRPPSGAKAGGCCRPGEGLP VGPDEKEKGAGAGGEEKKGAGEGGKD GEGGKEGEKNGKYEKPPFFSYNALIM MAIRQSPEKRLTLNGIYEFIMKNFPYYRE NKQGWHSIRDNLNLNCFVKVPRHYD DPGKGNYWMLDPSSDDVFIGGTTGKLR RRS/TSRAKLAFKRGAAALTSTGLTFMD RAGSLYWMPSPFLSLHHPRASSTLSYNG TTSAYPSHPMPYSSVLTQNSLGNHNSFST ANGLEAWDRLVNGEIP/YTATHHLTAA ALAA/VSVCGLSVPCSGTYSNPCSVNLL AGQTSYFFPHVPHPSMTSQSSTFMSARA ASSSTSPQAPSTLPCESLRPSLPSFTTGLS GGLSDYFTHQNGSSSNPLIH
3122	11173	A	407	187	741	TRGTSAAARTGRSSGIASMASGILVNVE EVTCPICLELLTQPLSLDCGHSFCQACLT ANHKKSMCLKGESSCPVCRISYQENIRP NRHVANIVEKLREVKLSPEGQKVDHCA RHGEKLSWFCQEDGEGSFCWVC*AVFR EHRGSPHVSSQRRFAREYQVKLQAALE MLRQKQQAEELEADIR
3123	11174	A	4070	1	507	
3124	11175	A	4071	259	1409	FLLWRYFVFGIVTEEKEKVQPTVYLIQLL DLLKAIT/SPHLEAGSKPSKKTGEKSSGS SSHSESKKEHHRKKVSGSSGELPLEDGV SHKSKKMKPLYVNTETLTLREPDGLKM KLILSPKEKGSSSVDEESFQYPSQQATV KKSSKKSARDEQGALLLGHELQSFLKTA RKKHKSSSDAHSSPGPLKGLGLDA/SQ FRKSPHSANLDLSGLEPILVESDSSSGGE LEAGELVIDDSSREIKKKKKSKSKKKK DKEKHKEKRHSKSKRSLGLSAVPVGEVT VTSGPPPSIPYAGAAAPPLPLPGLHTDGH SEKKKKKEEKDKERERGEKMGPSWKK ISSGLPLILHDGPWKNCFPRNRYVPVKRL RTADLVGLYLGSQHKH
3125	11176	A	4072	436	2063	RRREVEGWYFGGFSHRRTVICIDTPDISS LESSQKKKKSSPQSTDTAMDILKAITSP LAAGSKPSKKTGAEKSSGSFKAISGELKR EHHRKKVSGSSGELPLEDGGSHKSKKM KPLYVNTETLTLREPDGLKMKLILSPKEK GSSSVDEESFQYPSQQATVKKSSKSAR DEQGALLLGHELQSFLKTARKKHKSSSD AHSSPGPEGCGSDASQFAESHSANLDLS GLEPILVESDSSSGGELEAGELVIDDSYR EIKKKKKSKSKKKKKDKKEKHKEKRHSK SKRSLGLSAVPVGEVTVTSGPPPSIPYAG AAAPPLPLPGLHTDGHSEKKKKKEEKDK ERERGEKPKKNMSAYQVFCKEYRVTI VADHPGIDFGELSKKLAEVWKQLPEKD KLIWKQKAQYLQHKQNKAEATTVKKR ASSSEGSMKVKASSVGVLSPOKKSPTT MLLPASPAKAPETEPIDVAHLQLLGESL SLIGHRLQETEGMVAVSGSLSVLLDSIIC ALGLACLTTQLPELNGCPKQVLSNTLD NIAYIMPGL
3126	11177	A	4073	323	539	PFMICLVHFCAPGNPPSARPRPSPRCH PCAPQEGKMTHPQFRVMPAPSCYNWLL ENVFFIIQNSGVRIS
3127	11178	A	4074	27	425	GGGSGPRAPSATLLDTGESVA AVASGED KGIAASAAAAAVFACSCSPDPQSSTMNP VYSPVQPGAPYGNPKNMAYTGYPTAYP AAAPAYNPSLYPTNSPSYAPATLVMKQ

						AWPQNSSSCGTEGTFHLPVDTG
3128	11179	A	4075	1	434	
3129	11180	C	4076	117	251	MVPGPSLQNSWQASFNIPWPALPKPDLG PSPSVSPVDIFCGACC*
3130	11181	A	4077	58	313	SSKQKNPKESKTTKQNKIYTSYTQARP WGFPIFTPLGCFENTYKFFDQTTWKTLV KSSSSSSSSSSPILFLFKM*VPIKFKN
3131	11182	A	4078	1	279	
3132	11183	A	4079	54	946	GGGSGPRAPSATLLDTGESVAAVASGED KGIAASAAAAAVFACSCSPDQSSSTMN VYSPVQPGAPYGNPKNMAYTGYPATAYP AAAPAYNPSLYPTNSPSYAPEFQLHSA YATLLMKQAWPQNSSSCGTEGTFHLPV DTGTENRTYQASSAAFRTYTAGTPYKVPP TQSNATPPPYSPSPNPYQTAMYPIRSAYP QQNLYAQGAYYTQPVYAAQPHVIHHTT VVQPNISPSAIYPAPVAAPRTNGVAMGM VAGTTMAMSAGTLLTTPQHTAIGAHPVS MPTYRAQGTAPYSYVPPHW
3133	11184	A	408	1234	1337	TRGPRGPADSCRKAWSEKAWQGRPWS WCPAAGASGGCGPLHPWLW/PPEPWVE RATPT*GPCSRTPAGSPLPGFLRPLPA AVCRPPGSPCSETVLF*EAE/PT/*APVRI GGTFQPCAVLLPARMKVVQSSTVR*/VT VTRLPVQKVEVAGGWPGSHEKTLP/AA/ PAWGLDRKPLQAPRSQKPPNPQGTAES GQRWAHRYKCCFVSLTPCSSQLPVP*DL ASKG*PSHT*ILGSF*DLCLPA*PMLQGPC PQPLSAP*VFLFPSLS*VGALIGPFLARPF SRGQLP*AWATPPWPS*PLAK/SPPDVAC SLVPGPSFSPSHPSAPVVEPHL*APGALN VLSPLDLMCIPSPASYVAAKAPQAVNGG SCHTSLPELT*P/PATSCIGILRAGPCSLM GPPRPVKPW*RSLACLLGNSQCLTPQPK TGSVPYGPAPAVAVVP/ERLPPPGSPPPAP IKVLPLMQACVDHVFVPWPEPPPATGGQL PF
3134	11185	A	4080	1	502	RHEGGMWRAGSMSAELGVGCALRAVN ERVQQA\VARRP\DLSPSQPRLVAV/SA KTKPADMVIEAYGHGQRTFGENYVQEL LEKASNPKILSLCPEIKWHFIGHLQKQNV NKLGMKSEFLIKRENIMPRTELNSPFGSV IYTWETYPTSMFIIWWSFRKIIKNCS
3135	11186	A	4081	171	1184	IPILIMKLLCCHKSSGDPPYLHLFAKSKH STLPFSLGLGVGPRGMWRAGSMSAELG VGICALRAVNERVQQA\VARRP/RGDLPAI QPRLVAVSKT\KPADMVIEAYGHGQRT FGENYVQEL\LEKAS\NPKILSLCPEIKWH FIGHLQKQNVNKLMAV\PNLFMLAETVG FCECLADKVNSSW\QRK\GSP\ERLKVMG PGFNTSREEIYLFVS\LEGGKHGLPPSETI AIVEHINAKC\PNL\EFVGL\MTLG\SFGHD LSQGNPDFQLLLSLPEE/ICGKKLNIPAE QVELIMGMSAD\FQHAVEVGSTNVRIGST IFGERDY\SKKPTPDKCAADV\KAPLEVA QEH
3136	11187	A	4086	1	265	AGNRLRFQLELEFVQCLANPNYLN/WYP QCLHMLELLQYEHFRKELVNAQCAKFID EQQILHWQHYSRKRMRLQALAKQQQ QNNTSGK
3137	11188	A	4087	1	987	

3138	11189	A	4088	1	491	RGFRNFARVSGLLLCQAGGVLVSSFVM AAAVAMETDDAGNRLRFQLELEFFVQCY ANHNTLIFLPQR\GYF\KDKAFVNYLKYL LYWKDPEYAKYLYKYPQCLHMLGAAPN MEHFRKEAGWNAQC\AKFIGWNRQVST LGKHYS\RKRMRLQQAALAEQQQNNTS GK
3139	11190	A	4089	55	858	EKGRARGRERRRKMQLTRCCFVFLVQG SLYLVICGQDDGPPGSEDPERDDHEGQP RPRVPRKRGHISPKSRPMANSTLLGLLAP PGEAWGILGQPPNRPNHSPPPSAKGGKIF GWGDFYSNIKTVALNLLVTGKIVDHGN GTFSVHFQHNATGQGNISLVPSPKAVE FHQEQQIFIEAKASKIFNC\RMWEKVE\R GRRTSLFTHDPAKICSRDHAQSSSTW\SC SQPFKVVCVYIAFYSTDYRLVQKVCPD YNYHSDTPYYPSG
3140	11191	A	409	89	596	ILKTGSSLCHPRLECSGVILVHRNLR/LP G\SSNSPASGSPVA*ITGARHHDRLIFVFL VEMGFCYVGQAGLELLTSSDPPTSASQS AGVTGVSHCARPSFAL*F*KSA*YNLELC LFYHH*YSKCIHFHFLDYNCQNLTINIE SSLIFSILLISTFYCYLAEIPR
3141	11192	A	4090	1	368	MRARNLMTKLTVISRKEELQEEAAHR EVQSLPPGEMEERSSSKTCPQVCDGRILS CMIKVPP/VGREKH*RPGRSH*HEAGCG PFTPPKVDHHEHLPPRRVEAGSRQKST TEPFPQAAGW
3142	11193	A	4091	253	536	YLASLEIPQSKVPESRPSHQVPSSQSLDSE TPPSN/RHRQPPVDRKVCRLPLPPPTF RPPKVDHHEHLPPRRVEAGSRQKSTTE PFPQAAGC
3143	11194	A	4096	318	543	KSSWSRWAFGTVRSPCGRQHRDIGATD NSGRSGPAEQRPQSS/ASSAMSAAGGSRL TFHPRNLPPRTPTQDSAALT
3144	11195	A	4097	42	342	ENEILEVVQLGSRVCVFHFYHLHCCRHH CPENVHAG/CFGDCLG/HGRCSIQNCTFE R*I*VG*NNVAATAVMFGLVFPLVLSLK YQVYFFKVLALMNFCS
3145	11196	A	4098	1	1289	MYERVYVSTDIAIKLCKLLNRQFDRLY KKHSTGSASGEGLKALPLIVEGEGEPVC AEITRQEREEGAVHLFGLTWQLQPVGE LYANGVSKGNRGTESMDTTYSPIGGKVS DKSEKKVFQKGRAIDTGEVDIGAQVMQ TIPPGLFWRFQITIHHPIYLFNLSLAKDSL LGIYGRNIPPTHTQFDFVKLMDGKQLV KQDSKGSDDTQHSPRNILTSLETGFIE YMDQGPWYLAFYNDGKKMEQVFLTT AIEIMDDCSTNCNGNGECISGHCHCFPGF LGPDCARDSCPVLCGGNGEYEGHCV RHGWKGPECDVPEEQCIDPTCFGHGTCT MGVCICVPGYKGEICEEEDCLDPMCSNH GICVKGECHCSTGWGGVNCETPLP/EQC SGHGTFLLDAGVCSDPKWTGSDCSTE HKGSSRLFL
3146	11197	A	4099	1	4509	VRLEWPTDLAVNPMDNSLYVLDNNIVL QISENRRVRIIAGRPIHCQVPIDHFLVSK VAIHSTLESARAISSHGSLFIAETDERK VNRIQQVTTNGEIIAGAPTDCKIDP NCDGSGDGGYAKDAKMKAPSSLA VSPDGTLYVADLGNVIRITISRNQAHLNDM NIYEIASPADQELYQFTVNGTHLHTLNL I TRDYVYNFTYNSEGLGATSSNGNSVH IRR DAGGMPLWLVPVGGQVYWLTISSN G
3147	11198	A	41	319	1002	

3148	11199	A	410	372	639	RAFWQYFKSLNMFMSFDPAILLIGIYPKE KS*IQK/DTLCPEVSEILLMVVKNYN*YIC HTRNDQAGLIY/HLYSGIYLALK*VCEFF TLKG
3149	11200	A	4100	338	8522	SEMEQTDCKPYQPLPKVKHEMDLAYTS SSDESEDGRKPRQSYNSRETLHEYNQEL RMNYNSQSRKRKEVEKSTOEMEFCETS HTLCSGYQTDMSVSRHGYQLEMGSVDV DTETEGAASPDHALRMWIRGMKSEHSS CLSSRANSALSLTDTDHERKSDGENGFK FSPVCCDMEAQAGSTQDVQSSPHNQFTF RPLPPPPPPHACTCARKPPPAADSLQRR SMTTRSQPSAAPAPTSTQDSVHLHNS WVLNSN
3150	11201	A	4101	139	520	LSLPLSPRLECSGTILARCNLHSPPRSKR FSCLSLPSSWDYRRAPPNLAIFLLFLV EMGFHHVGGTGLELLASNYLPTSA/FPK CWDYRHEPPCPADKTNFLSLWFIGYNIF LESEVNFFLPWDA
3151	11202	A	4102	7	497	
3152	11203	B	4103	93	182	PPPKALRRELPEEAAAEEERRKIEVPSEIE *
3153	11204	A	4104	51	394	WGGPGLKPLLMVLDPYRAVALELQANR EPDFSSLVSPLSPRRMAARVFYLL\SV CMCVCVCGAGTQRPEARTGTPPTCPLLA S*PVLSAQQLHVQKEKPYGRLLIQPGPR FH
3154	11205	A	4105	427	499	
3155	11206	A	4106	796	2482	KTRGNMFYYPNVLQRHNGCFATIWL ATRGSRLVKREYLRVNVVKTCEEILNYV LVRVQPPQPLPRFRSLYLSAQLOIGVI RVYSQQCQYLVEDIQHIL\YRLHRAQLQ MRIDMETELPSLLPNHLAMMETLEDAP DPFFGMMSVDPRLSPFDIPQIRHLEAAI PERVEEIPPEVPTPREPERIPVTVPPEAI TILAEAEPLRMLEIEGERELPEVSRREL\DL LMAEEEEAILLEIPRLPPAPAEEVEGIGEA LGPEELRLTGWEPGALLMEVTPPEELRL PAPPSPERRPPVPPLRRRRRRRLLFWDK ETQISPEEFPRNNLQTRAH\WCWCPMV\Q PPERTIRGPAELFRTPTLSGWLPELLGL WTH\CAQPPPKALRRELPEEAAAEEERR KIEVPSEIEVPREALEPSVPLMVSLEISLE AAEEEEKSRISLIPPEERWAWPEVEAPEAP ALPVVPE\PEVP\MEMPLVLP\LELELLN WKT\HRA\VALELQ\ANREPDFSSLVSP\ LSPRRMA\ARVFYLL\VLVLSAQQLHVQK EKP\YGRLL\QPG\PRFH
3156	11207	A	4107	136	423	SPEHPQLPGSLLRPPGAQIPSEWQVAEAT ALVHTLDGWSVVQTMVVSTKTPDRKLI FGKGNFEHL\KKELEAAWGVEVDFRFTV VLHILRCNARTK
3157	11208	A	4108	1	212	RPPRRVVRGRHQPHGEPVRS GAPVRVP GEDDAAQPSAAERVGPRAVPGAGFTVH QHHRGGLHRRRLRQ*RHQPHGEPVAVR SGAPVRVPGEDDAAQPSAAERVGPRAV PGAGFTVHQHHRGGLHRRRLRQ

3158	11209	A	4109	1	1746	AGRRTPGAAALPRGPRPLGSAGSRAVLP RARASRCRPQEPRESGGAVGRREGPAGG RRTKTERKTTRRSRKMRTTRPRRSCGE SLCCRRGPKRVCVLVHPDVKGWPGKSQM TRAEWQVAEATALVHTLDGWSVVHTM VVSTKTPDRKLIFGKGNFEHLTEKIRGSP DITCVFLNVERMAAPTCKELEAAWGVE GCLTAFTVVLQHLPAQNARTK/ERARLQ VALAGDARLHRSNLKRDVAHLYRGVG/ SRAYIMSGSFH/MQLQQRLLREKEAKI RKALDRLRKKRHLLRRQRTTRREFPVISV VGYTN\CGKTTLIKALTG\DAAI\QPRDQL FATLDVT\AHAGTLP SRMTVLYVDTIGFL SQLPHGLIESFASATLEDVAHS\DLILHVR DV\SHPEAELQKCSVLSTLRGLRLPAPLL DSMVEVHNKVDLVPGYSPTEPNV\VPVS ALRGHG\LQELKVELDAAVLKATGRQIL TLRVRLAGAQLNWLYKEATVQEVDP EDGAADVRIIS\NFPYGK\FRKLFPRMN GRPQKACGVGASPALGELRRYPLCWGQ LGVRCSRVLVWFCTRLASQPFAGMYR ACR
3159	11210	A	411	136	251	IHQEKPPNIFSVKKRHYD*PGQHDPLASA SQSAGITGV
3160	11211	B	4110	50	382	XGEQLVRQDL DAGVSEHSGDWLDQDSV SDQFSVEFEVESLDESDYSLSEEGQELSD EDDEVYQVTVYQAGESDTSFEEDPEIS LADYWKCTSCNEMNPPLPSHCNRCWAH X*
3161	11212	A	4111	1665	1787	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3162	11213	A	4112	1431	1553	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3163	11214	A	4113	1740	1862	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3164	11215	A	4114	1	752	DL DAGVSEHSGDWLDQDSVSDQFSVEF EVESLDESDYSPSEGGQELSDDEDEVYQ VTYVYQAGESDTSFEEDPEISLADYWK TSCNEMNPPLPSHCNRCWALRENWLPE DTGKDKGEISEKAKLENSTQAEEGFDVP DCKKTIVNDSRESCVEENDDKITQASQS QESSEDYSPSTSSIIYSSQEDVKEFEREE TQDKEESVESLPLNAIEPCVICQ/GST*K WLHCPWQNRYSYGLLYMCKEAKEKE
3165	11216	A	4115	426	813	SSRRFVWRKLLCERAQSGTVYEI*QCA HRHPRHRHPGCCRHRLGYAGTAGPLAG YRPFQRHRSQSLWRAASAICVDAISMRT SRSTVRPLWPPSPARFATWSHYRLRDH GDHTRPVDLPTSQFTILL
3166	11217	A	4116	1174	1354	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPLRPAGLFKHSPGLYSQ PILT
3167	11218	A	4117	2251	2373	FFVLLVETGFHRVSQDGLDLLTS*SAHL GLPKCWDYRHEPP
3168	11219	A	4118	1027	1193	FFFFFFFFFGLVETGFHRVSQDSL DLLTS *SSRLGLPKCWDYRHEPPRPAEEGI
3169	11220	A	4119	983	1386	QEVRYRKVETLRCLLFSSCLVPVCAASP VSRPGCRFLRSSLHWPTGRLVFRQRGET FLVPEKTVLRGVASAPAKAAGRTPVPG RPRDARLRADARS*SC*RAARPRRGASG AVGARCGPRPGFPFLRSGGIFV
3170	11221	A	412	118	337	IHQEKPPNIFSVKKRHYD*PGQYGKTL LKIQLAGYSGTCL\KSQLLRRVGREVIQL ALKIRAPIWKIECL

3171	11222	A	4120	6133	7646	YMLFLFLSTKGWTVIQNRQDGSVDFGR KWDPYKQGFQGNVATNTDGKNYCGLP NEQACKIKSFYLKWDFF*LNKIHCKWPV LGS*EEFPDKNVEAKDKGRKAVFSFPKF YFW*EILFCFSFRLEYWLGNDKISQLTRM GPTELLIEMEDWKGDVKAHYGGFTVQ NEANKYQISVNKYRGTAAGNALMDGAS HLMGÆNRDHDPPFHNGHGSFQPPYDARD NDGWYVWVHSLLLL*KSH*YHYSESLTIF LIATTSWALTVSHCPKLFMHHSKAFQL* GRHSYSHFTDEI*RDYVICPM SHNYPEIK LEFEHSYFLNNEHLDKYL*YLKCV*KL SFSFPGFSDTKGCKSYSSIK*QTQSLDG LPQRPSYLSFLL*GTGGLWCISVTLCIAP KGKTTVHTSVAVFYG*SAKRNLTTVVLF LITPNTFSRLTSDPRKQCSKEDGGGWW YNRCHAANPNRGYYWGGQYTWDMAK HGTDDGVVWMNWKGWSWYSMRKMSM KIRPFFPQQ
3172	11223	A	4121	333	430	GRGDKPYPSPGDSWVQD*ILVQL*ICPQ EPS
3173	11224	A	4122	2	1679	
3174	11225	A	4123	42	1465	GRWPPRGRENALSKTLVDMMDADYS AALDPAYTTLEFENVQVLTMGNDTSPSE GTNLNAPNSLGV SALCAICGDRATGKHY GASSCDGCKGFFRRSVRKNHMYSCRFSR QCVVDKDKRNQCRYCRLKKCFRAGMK KEAVQNERDRISTRSSYEDSSLPSINAL LQAEVLSRQITSPVSGINGDIRAKKIASIA DVCESMKEQLLVLEWAKYIPAFCELP DDQVALLRAHAGEHLLLGATKRSMVFK DVLLLGNDYIVPRHCPELAEMSRVSIRIL DELVLFPQELQIDDNEYAYLKAIFFDPD AKGLSDPGKIKRLRSQVQVSLEDYINDR QYDSRGRFGELLLLPTLQSITWQMIEQI QFIKLFMAKIDNLLQEMLLGGSPSDAP HAHHPLPHLMQEHMGNTNIVANTMPT HLSNGQMSTPETPQSPPGSGSESYKLL PGAVATIVKPLSAIPQPTITKQEVI
3175	11226	A	4124	3	1840	
3176	11227	A	4125	6233	6874	VLIGCIPQVPPSISYSPLFWFSALGNVAEI FFCLCLGNHNSCWRTLVEVPESLCPHC *RLLV*HKSGLIWWLTPQMLQLDPAALP CPPSSIVDAKGLSDPGKIKRLRSQVQVSL EDYINDRQYDSRGRFGELLLLPTLQSIT WQMIEQIQFIKLFMAKIDNLLQEMLLG GPCQAQEGRGWSGDSPGDRPHTVSSPLS SLASPLCRFGQVA
3177	11228	A	4126	1	1481	GFGVGAQGRAGGRRVEAGRMRLSKTLA VDMMDADYS AALDPAYTTLEFENVQVL TMGNDTSPSEGNTLNAPNSLGV SALCAI CGDRATGKHYGASSCDGCKGFFRRSVR KNHMYSCRFSRQCVVDKDKRNQCRYC RLKKCFRAGMKKEAVQNERDRISTRSS YEDSSLPSINALLQAEVLSRQITSPVSGIN GDIRAKKIASIADVCESMKEQLLVLEW AKYIPAFCELPDDQVALLRAHAGEHLL LGATKRSMVFKDVLLLGNDYIVPRHCPE LAEMSRVSIRILDELVLFPQELQIDDNEY AYLKAIFFDPDAKGLSDPGKIKRLRSQV QVSLEDYINDRQYDSRGRFGELLLLPTL QSITWQMIEQIQFIKLFMAKIDNLLQEM LLGGSPSDAPHAHHPLPHLMQEHMGNT NIVANTMPTHLNSNGQMCEWPRRGQA ATPETPQSPPGSGSESYKLLPGAVATI VKPLSAIPQPTITKQEVI
3178	11229	A	4127	602	799	ENPKQENLWSQYFTLISTI*KKKSWLCI VAHACDSSTLGD*GGHIA*AQEFETSVG NIVKPPSLY

3179	11230	A	4128	646	1905	
3180	11231	A	4129	6717	7569	
3181	11232	A	413	160	437	KRDITSLGQYGQNPISLLKIQILAGYVSG TCLKSQLRRLRHQNRNLNGGRG/GSE QRSCHLHSWGGHSETVSKKKKKRERQQ WRQIGTCMP
3182	11233	A	4130	2	93	DFTMSHHYHSAHGTLLVAPRALGNPLSL YPSNYTFFQHSPPDCTQSYSLPPEYAT HGSSCFDTTDGGNLASRALAGSCAPVSG SLPCCPTLGIPSPPLPHMHKSLPTYPTPTI SMKPP*PCPGSQGPWQSAFTLPI
3183	11234	A	4131	743	955	ESDFTEYFTHNSCLFCYNKIYINIKLSL NCNYGNYFLYIVAAHTQTYIYI*NIFCF CHLLTFCCLGF
3184	11235	A	4132	49	313	PLRIWPC*ALFLKLSLGFSLF*FYSSLFLL SPPLC*SLPRVQYIYMYILYICIN*YTYI QVCICNGYMYSCSWCSNVWYGYTENM RT
3185	11236	A	4134	508	780	VSFSSFPSPHLSLFFFSLSFSFPPSLFPSS FTTFGNHLL*ISCNPNLMYQWGIFKYK YYQCIFWLLSDF*LKYNENDMSVAFGLR TSL
3186	11237	A	4135	34	329	DRLKRKNKQSLSYLWEYNKKSNICVTQ SLEREEDDRAEKVVE*IMASNFPYLSRD VNLKIQDS*RILNWIKLKSISKYIIDLLE TKDIIRNLESSQR
3187	11238	A	4136	582	869	MCQRVQTPKSPSNPYVHSNICTQLFIAPL SIIAKRWKQPKCPSAEE*INEM*YIHSME YDSAIRNEVLHVTTWKNFENIRLMKD ASHKGLYVA
3188	11239	A	4137	285	346	AVLFYVFHIPYLLVMTLLLYFLP*LPNQC RFSSLHSKTTAWPSTTVTLF
3189	11240	A	4138	97	298	DNLTLPRLECGMMIMAHCSNLTFSSD PAASAS*VAGTTGT*HHAWIFVFCNLWL RNRGVTVKRS
3190	11241	A	4139	147	502	IFHSKMPISEWKL*TLWQFFKELKIELP FDPAIPLGI*PKLAVVAPQHS
3191	11242	A	414	2	150	WLPSLLEPGLHPSNHVQGPVAGIDLGT YSCVPIGNRTTPSYVALRPG
3192	11243	A	4140	435	660	NLNQHEKLSMLE*ILKSYPKILDNINDHE VSHCSKGNFNKRSKEWWCGTQDSWR LGNLKVGEFNDLTRNTL
3193	11244	A	4141	293	563	NVWPSSSVRGRNE*GREGRRRTQAAA GLGPAPSDLWWLWLSWCLQKNMSQGG ENLPAGPGSCCGREAQEGAGTSLEDAPF FEAQLQLH
3194	11245	A	4142	1329	1563	WPRNQPTRRPWLKDKLPVPGGLTGN PCGQGPPIPPLRPSALWSSHSGPPNG EPLPRGE*YLHSPRRTSYL
3195	11246	A	4143	304	589	RTWWTAASYFRSVGGSASNRPFSGPY EFQLPRGHSRKGTTRSRAREPSTLWSTP AAP*RTWWTAASYFRSVGGSASNRPSI PGPYEFQLPRGHSRKGTTEEQSGAIYT VEYACSAVKNLVDSSVYFRSVEGLLKQ AISIRDHMNASAQGHR
3196	11247	A	4144	131	690	VSPAVTTSSLSWARSDLAAEGHARCPL CSGWAQHLNNEADALSPHTRPIPTCI* SRTSSLRASWPTSHPWCTGCRSMCV RSLPELAQHKADNAALGRSRAREPSTLW STPAAP*RTWWTAASTSAAWRVCSNRP SASGTILNASCPGPQVAPGDRPPPLFP QGPLSLSCAGEPLLLAY
3197	11248	C	4145	332	421	MEEKIFSQPGMVAPTCNPSTLGGQGRWI T*
3198	11249	A	4146	685	929	KVGGAKPSLGYLRLGLRPLVFCLHIS*A GDFPRGV*LLPRRGSGVVAHTCNSTLG GQGRQIT*GQEFKTGPVNMVPHLY

3199	11250	C	4147	710	892	MCVCAHTCPQTSIYIHVFTHGYDCIQVT AQKCLHMCFHMHMSTHACVDTYICIYIH VKLI*
3200	11251	A	4148	98	317	
3201	11252	A	4149	656	1037	FVQVQAHKLACKHVQGAYFVFKEQQPE GNVFRCCQGVSTS*EHGASSEPWHPAGA GVTTSFSSPFGGDRHKFEVSGRRLPTEG LPNSSSFESFPSSIPWPFLFPQVQLSTIWG LKFQFFGDLKILP
3202	11253	A	415	1	1786	MCLLVITYSSRHVYNNLTEEQKGRVAF SNFLAGDASLQIEPLKPSDEGRYTCKVK NSGRYVWSHVILKVLVRPSKPKCELEGE LTEGSDLTQCESSSGTEPIVYYWQRIRE KEGEDERLPPKSRIDYNHPGRVLLQNL MSYSGLYQCTAGNEAGKESCVVRVTQ STMFQGTQLGIDLTGTTYS\CVGVFQQR KSPRLIAN\DQGNR\TPSYVAFTGH*TG WIGDAAKNQVAMNP\TNTVFNAKRS LDGRF*MNAVCPVLIMKHWALYVWGE MMLGRPQGP*KDYKGEDQKAFYPEEGC LLWVPDKD*KEICRSPNLGEELVTNAV TVPAYFND\SRQATKDAGTIAGLNVLR IINEPTAAAIAYGLDKKVGAERNVLIFDL GGGTFDVSILTIEDGIFEVKSTAGDTHLG GEDFDNRMVNHFAEFKRKHKKDISENK RAVRLRTACERAKRTLSSSTQASIEIDS LYEGIDFYTSITRARFEELNADLFRGTLD PVEKALRDAKLDKSQIHDLVGGSTRIP KIQKLLQDFNGKELNKSINPDEAVAYG AEMRQDKKELLDP\IAEDFLEEVAFDCK RMGFGGF
3203	11254	A	4150	1365	1503	LKTLQRAGCSAHACNPSTLGGQGRWII* AQEFNTSLGNVAKPCLY
3204	11255	A	4151	397	682	YSKSCCHKAYRMKCQLNVGLSCKCECT EWRDPCELEGQESLWGQVQLAHACNPN TLGGQGRGRIA*GQKFKNLNNIARPHLF KKRKKISLMRWLK
3205	11256	A	4152	477	684	LYLCSALKKNQ*EPGMVTHAWNPNSTLG GKGRRTA*AQEFQTSLSNVGRACLYKIY IFKISQAWWHAFVI
3206	11257	A	4153	108	419	SHTLGGQHGRIMRSGVRDQPGQHGETPS LLKIQKKKKLPGRAGRHL*SQLRLRL ENRLNLGGGGGSETEIEPLPPQPG*TQ*R LPSQKQKNLETVSKKKS
3207	11258	A	4154	175	190	DKVRVSQVRLTSRHLITLR*IRKGRGKK RGCRERNRENRGK*KYV
3208	11259	A	4156	20	430	RPQTYTMVHLTPEEKCAVTALWGKANV DEVGGEALGRLLVVYPWTHRVFETFGD VSTPDVAVMGIPNGNADGMNVLWASIDG LAHLDNLRGTATLTHEHD*D*LHVDPEIL MLLGNVLICVLAHHCVGFEPSWQAA
3209	11260	A	4157	31	492	QRILQSRPFEGRVKQGVTWLLQLVLVS ESHIGPELHLPCEECHLLVSFGVNSPE DSSPLLTEWLWTSHLPFLHCLFGASGR GLQTVPPFVSTALQNVCFPQKGKAPFL LSCATGGCSAGLRVYKLSAPSCD*AGR TRGSSGESAPML
3210	11261	A	4158	165	433	GSGQADHPCVGVWRQNSVNPROVFLQAT G*LISASSGSINTNMAOQTAVVCFGPVYP PKAKGRARSQVTPCLTLPKGRCLKILC YLFKL
3211	11262	A	4159	132	257	
3212	11263	A	416	1	154	PQRRVARRKRAVLPSTKA*PENTPSTFTS ASMEWASRSVHLGHSKRFGNLP

3213	11264	A	4160	2	111	QLLKDSARSTLVLYPCWARVVSQKSGCCP LKVLSQLRPGKKLGLLWVEAWECPGA RCLCHPGPLCPASGTFVPGTEPHS*LLL RNELPSPLF*LLGQSEPEKWMLPPQGAIS ETR
3214	11265	A	4161	3	116	GWRAPTSQPGGPAQVPCSSF*KILPGQH WSSTPAGPE
3215	11266	A	4162	273	793	DSLLLIQVDTMPFTLHLRSRLPSAIRSLIL QKKPDIRNTFSMAGGAPTSQPGGPAQVP CSSF*KILPGQHWSSSTPAGPE*ARKVDAA PSRCYLDRDQPKGPFKVPGETEPHS*LLLRN ELPSPLF*LLGQSEPEKWMLPPQGAIS SLRDLKCLAQNLTHDCCSGTSCPPHCS DSFPYHLAPVLAEIFEIMEKVQWRNPT GSAICPLHRPSQKPACTGLRRK
3216	11267	A	4164	212	494	FSEAQFLANVAIKAILSEEISEGKGDRRM LADHTLILTERGSEGPC*POEVRPTVLS EWGCKCAQANCECSP*PWPHKSRAGHF PPLSLGKLL
3217	11268	A	4165	281	587	EIFFNPKREYLSLHWMDEHQCPNFIHHV GQGGGLGTIWDVLQEYNQKNFLYNISLK DKFLGWMW*LTPVIPALWEAEVGSLE PRSSKTSLGNMARSHPYKK
3218	11269	A	4166	113	564	IDRLDSAKIFGHLISIFDRCEKRRPDLVSG TGTCSGSFRRTVFPQAVPGRDTSPIRTH GPNFVP*TLVEKKPPAAW*TPACDLTSK PSIGPTILVPTKVEPGSLPTA*DPLEPIQ SPEKK*SIVPQTGSFQTASQLTEAVPELV LVAH
3219	11270	A	4167	1173	1432	PIPVDLNLTLMFCHYFIYVYHPCLEMFST CGLLSL*AQRPSDGYFFAFIYILFCTMF FLNVQILYSSEKNTVFVDNHSYYTVLR
3220	11271	A	4168	75	270	QYISVVDTYLLMPRLATAILWITN*VFE KRVAHFYHWSLMVRDRRISGVDRYYV SKLENID
3221	11272	A	4169	271	825	SPPACLVDDGQALPSGGGLYPNSLRQGS VGQAGRGCLSWFCMVHFANPEDQFLGF QASGFLHVLKPPQGAATPSGSSQGGPA MFSGLPSEPPTPPATPQNPIHSSTKLLCE AAAPTRGKCTPSSIFQWHRDYGKGRA GFSASGRGRPHLTPSPVHQTG*EASQK GPALMPPGFQPPKKG
3222	11273	A	417	1	893	PTRPCMAGEKVEKPDTEKKPEAKKV DAGGKVKKGNLAKKPKKGKPHCSR PVLLRGIGRYSRSAMYSRKAMYKWKYS AAKSKVEKKKKEKVLATVTKPVGGDN GGTRVVKLRKMPRYPTEDVPRKLLSH GKKPFSQHVRKLRSIY/TPGTILILTGR HRGKRVVFLKQLASGLLVGTPLVLNR VPLRRTHQKFVIAATFTKIDISNVKIPKHL TDAYFKKKKLRKPRHQEGEIFDTEKEY EITEQRKIDQKAVDSQILPKIAIPQLQGY LRSVFALTNGIYPHKLVF
3223	11274	A	4170	1	211	THPPPAEAPGAEGPQ*G*AKHPSAP*APL L/PRRRARASSRPVTSVTPSSGGGSRPGTP AQGVITAVTVSA
3224	11275	A	4171	1	424	NSRVDDFVRPGSSAAGRQMRGGGQV PNPRPGFRGQQP*RNGHPVPASPWALAG DAGGMLWNMMRSWPVSGRPTLNPFNK QSGPRQHEQGPGEEVPDVTPEEALPELPP GEPEFRCPERVMDLGLSEDFHSRPVGLFP GL
3225	11276	A	4172	1091	1421	RGIITEINKHPDHIHSPHTCRHTFTNMH AHTHTPTMYMHTHTGMFW*K*N*GSLNS RSGFK
3226	11277	A	4173	1407	1607	LSDLNGNFHSHKVMTRVNIKGNLYLKNM RPGAVAHACNCSTLGGGQGT*AEQEL ETSLGNVVRLCLY

3227	11278	A	4174	1	294	FSRPDHLNGHIKQVHTSERPHKCQVWV GSSSGLPPLPLPSDLPSWDFAPALWR/ CVPFGS*HRLFFFSKKIIPSP*KPGPSTLQQ HSDLDPAFISG
3228	11279	A	4175	560	824	FWKVGCLPWELAHPAYLLPFPLGITSP*A LGFPRTGGPWPTFPPLPRVSRPSQRRLG TIPT*SQPHACPLPLPHSGSRSCFHWLV K
3229	11280	A	4176	3	325	FFHVSRLNFYFFRYIKHCYFIFSLIILVSGV RVNLLLLLLGLIVYCFVLVFMNF*TWISHF LSFFFFFFCRDGVSHCVAQAALFTPLGLKC WDSRREPPRPAEMFLFLGT
3230	11281	A	4177	292	543	SPGTYAPKRIGKGAGNWKPGVPRSSM WKETQPLSSRVSKVKLSVSPSPPIVPVP LLPALPK*GHSPLVSPPLHRSSQGESF
3231	11282	A	4178	3	367	IQMDCVLLFPAQAQISAPPLIMKTTPITIS WGLEHICPSYPWNHSPSLYHRYAMGFG MFFQSGPCSSWAWKLSRTLPSLVVALSS AWPLTRG*RLDLGPPAPSSYVGFSSQASP SPSPAQQC
3232	11283	A	4179	67	283	MCAYIKIDKGNRMCTNMIYLVGIGVT FSLTLMYKYTKLIIMLSYVKRLTLISCAF YVNLWINLYYAMFI*MCAYIKIDKGNRM YCTNMIYLVGIGVTFSLTLMYKYTKLII MLSYVKRLTLISCAFYVNLWINLYYAMF IK
3233	11284	A	418	934	1272	WCILGLCTSLMSRTALFPSRHTFFA/RSH SAASKL/EKKKKEKVLATVTKPVGGDN GGTRVVKLRKMPRYPTEDVPRKLLSH GKKPFSQHVRKLRPSITPGTILILTG/RH RG
3234	11285	A	4180	268	467	GNRRALLRLPALGPPRSSP/DGFTPGTTA RPSILKRCMPMTPLPPDPSAAAPGTSELW TSPDSSSSSR
3235	11286	A	4181	880	1200	GNPTWFLFLPSYQGNSGPAEIQS*GFTPGT TARPSILKRSPMPTPLPPDPSAAAPGTSEL WTSPD*QQQQQDGKEAPQSGRHDSSSA LRPAAPEALPVSRRPPPLAA
3236	11287	A	4182	343	720	SCLLTVISFHQIKKYIYVHTQLTKAGQKE FICRLSLALTNLPPAAPPLAMAPCVSPAS RQDTVLG/GPQPPSGAPTAPQQA*AR WQLGPPSPGPSILPPREGRPSAPSGAGWG GDLAGPSQVHF
3237	11288	A	4183	789	1015	MSLMVPLMPYGP*YLPSPPAYPIWEL PLPQRDSADVSRRLGGRGVAVERDSPTE KSNISKFLYQVACAVTHL
3238	11289	A	4184	319	471	IMWYIHIMEYI*PQKGRKILTHATI*MKL EDIMLSEISQSQKNKYCIISVI
3239	11290	A	4185	68	422	GSPSRCPAFLSSPVAARPPLTHFTGAGL LRASGEPAQLTGVSQS*PPRAPSSGLPL KHSPHQCSAQHSGKEGLGGGTNTTREN* PSRPLCMGAQAGRMILLPAAVRNHVL ESGSV
3240	11291	A	4186	135	500	PPWVTPRWERG*WGVIRDTGDRVRSQRQ QGLPPKLQSGWEVESWLGPRPRVFPQS VPGTPR/SPAAGGSQPRCPDARPAHKGPR APGARCGPPAPPGLPPAY*PGRPR/PRP ARR*TPLTAA

3241	11292	A	4187	365	1452	IGPEVPEGCHFRSGESRGDATLAYRVESE HHILGLEGCAGNATLVQGVGRKIPCLGLR GAILGPQIAVRLGSRIMARPAAPGLSQA RSLARRGCPAAGGSQPRCPDARPAHKGP RAPGARCGPPPAPPPGLPPAY*PGRPRRG LHGGRHRSRRPPRRGPAAPGSPPAEVAG ASARGRAPGPPPCPRPPPIPAAPRVEAG PSARPSVPAPAPAPSRSPRLQPPAAPWG GRASGPKDPTAPPPPTRTQSARNPSRSP PPAPPSPASAGASADDPGTPWHRTGPPC QSQTRKHTGP*AARDQQRQSRKDDSDPTG LCHCLRPGAPKCLKGLWFAFSVHPPWSS TPWLQSGRVNLPLAQDIFLL
3242	11293	A	4188	200	390	GPHAKSAFFPP*LSEQLGQG*QPGQTPVG RLLALSVAFPQGVGFPKAGGGTGEAFGG LACPLP
3243	11294	A	4189	805	1030	LVLCPHSQLTKGTSHTCLTLQGPL*KL TRLALFRLGAVAHACNPSTLGGPRGPIT* CQEFKTRLANMVKPLLY
3244	11295	A	419	1	2607	MAFAWWPCLILALLSSLAASGFPRSPFR LLGVANGIEVYSTKINSKVTSRFAHNVV TMRAVNRADTAKEVSFDVELPKTAFITN FTLTIDGVTPGNVKEKEVAKKQYEKA VSQKGTAGLVKASGRKLEKFTVSVNVA AGSKVTFELTYEELLKRHKGKYEMYLK VQPKQLVKHFEIEVDIFEPQGISMLDAEA SFITNDLLGSALTKSFSGKKGHVSKPSL DQQRSCPTCTDSSLNGDFTITYDVNRESP GNVQIVNGYFVHFFAPQGLPVVPKNVAF VIDISGSMAGRKLEQTKEALLRIEDMQE EDYLNILFSGDVSTWKEHLVQATPENL QEARTFVKSMEDKGMTNINDGLLRGIS MLNKAREEHRIPERSTSIVIMLTGDANV GESRPEKIQENVRNAIGGKFPLYNLGFG NNLNYNFLENMALENHGFARRIYEDSD ADLQLQGFYEEVANPLLTGVEMEYPEN AILDLTQNTYQHFDGSEIVVAGRLVDE DMNSFKADVKGHGATNDLTFTEEVDMMK EMEKALQERDYIFGNYIERLWAYLTIEQ LLEKRKNAHGEEKENLTARALDSLKY HFVTPLTSMVVTKEPEDNEDEIRAIDKPG EASYQPPQNPPYYVDGDPHFIIQPEKDD ALCFNIDEAPGTVLRLIQDAVTLTVNG QITGDKRGSPDSKTRKTYFGKLGIANAQ MDFQVEVTEKITCGTGRA\STFSWLDT VTVTQDGLSMMNRKNMVVSFGDGVTF VVVLHQVWKKHPVHRDFLGFYVVDSDH RMSAQTHGLLGQFFQPFDFKVS DIRPGS DPTKPDATLVVKNHQLIVTRGSQKDYRK DASIGTKVVCWFVHNNGEGLIDGVHTD YIVPNLF
3245	11296	A	4190	90	417	LALEILSYFYLLYPVWHFGFNSVVALSL KILNIIVYLFSSFKSLRNFSALVSIFVFCF SSFSACFSLNSKDFF*NPDIEKKPHVKNS RIYKTQYSKDHPQRENQFR
3246	11297	A	4191	2	672	GRVGFTPGSWEAFMVKNIVPKLGMCLG ELVINPHQQHMDAFYWVIDWEGMISVSS LVGLLEKHFFPKWLQVLCWSLNSPNYE EITKWYLGWKSMFSDQVLAHPSVKDKL NEALDV MNRAVGSYVG\AYMQPGIARE\ NIAYLTHTERRKDFQYDAMHERRAGPQI GLLRSLGKNLKICAKKEPLEIYLWANLK EYYLAKTGQGGPPFFLTRAPEGLITAWA LWG

3247	11298	A	4192	1642	2785	RMTSSCPMADRTCPLPFSHRLIWEVWMP FVRNIVTQWQPRNCDPMVDFLDSWVHII PVWILDNILDQLIFPKLQKEVENWNPLTD TVPIHSWIHPWLPLMQARLEPLYSPIRSK LSSALQKWHPSDSSAKLILQPWKDVFTP GSWEAFMVKNIVPKLGMCLGELVINPH QQHMDAFYWVIDWEGMISVSSLVGLLE KHFFPKWLQVLCWSLNSPNYEEI/TPK WYLGWKSMPSDQVLAHSIWSRDKFNE ALDIMNRAVSSTVGAYKQPGARENIAYL THTERRKDFQYEAMQERRRPENMAQRG IGVAASSVPMNFKDLIETKAEHNIVFM PVIKGRHEGKQLYTFGRIVYIDRGVVFV QGEKTWVPTSLQSLIDMAK
3248	11299	A	4193	264	638	PSRTRIKTKQMATSEILPSFVATMDASNF SFWQVLCWSLNSPNYEEITKWYLGWK SMFSDQVLAHPSVKDKFNEALDIMNRA VSSNVGK*GFPFWMSWPQVSDFTHVND TESEFSGSCROPKP
3249	11300	A	4194	2413	2707	EMHVY/WTERSGSRL*SEHFGPRWVDH *RQEFETQPGQYGDTPSLHLPLSTSCPS FLSLFSLVTFFFSSSFLSLFLIYLLSRHDF LACDCFPLFLD
3250	11301	A	4195	835	1050	GSR*HNLQIIGRPRRADHLRSGV*DOPGQ HGETPVSTRNTRISQAWWWTPVIPATQE AEAGESLEPGRWRLW
3251	11302	A	4196	2	112	
3252	11303	A	4197	36	172	
3253	11304	C	4198	1	1482	MVTHACNPTTIGKLEPSYVIRKFLDAQRI HNLTAYLQTLHRQSLANADHTLLINC YTKLDSSKLEEFIKKKSESEVHFDVETA IKVLRQAGYYSHALYLAENHAHHEWYL KIQLEDIKNYQEALRYIGKLPFEQAESNM KRYGKILMHHIPEQTTQLLKGLCTDYRP SLEGRSDREAPGCRANSEEFIPFANNPRE LKAFLEHMSEVQPDSPQGIYDTLLELRL QNWAEKDPQVKEKLHAEAISLLKSGRF CDVFDKALVLCQMHDQDGVLYLYEQG KLFQQIMHYHMQHEQYRQVISVCERHG EQDPSLWEQALSIFYARKEEDCKEYVAA VLKHENKNLMPPLL VVQTLAHNSTATL SVIRDYLVQKLQKQSQQIAQDELRRRY REETTRIRQEIQELKARVKAMPPPGKVPR KENLWLQCEWGSCSFVCSMEKFFEHV TQHLQQHLHGSGESEEEEEEDDPLENSV NKDIRNKSAILPSRSNC*
3254	11305	A	4199	913	1299	ELGIVGKHAPTGGAGYHFLGMAAEVL SKFTAVLEGAGTAFPATQHHRVVLADCF VFTETDCVLPHADKTTQDCRRNSVPAT HSAPTDRNRKWSGISGMTFRLWKSARMQ PRSAWLC*ACSPHCFSLVW
3255	11306	A	42	1	818	MAGAEGAAGRQSELEPVVSLVDVLEED EELNEACAVLGGSDSEKCSYSQDKAK VNSGNKYNDNFFGLYCICKRYPDPPEDE VRELEVKPGVTKISTEDDGLVRNIDGIGD QEVIKPENGEHQDSTLKEDVPEQGKDDV REVKVEQNSEPCAGSSSES DLQTVFKNE SLNAESKSGCKLQELKAKQLIKKDTATY WPLNWRSLKCTCQDCMKMYGDLVDLF LTDEYD TVLAYENKGKIAQATDRSDPL MDTLSSMNRVQQVELIC/GIQ*FED
3256	11307	A	420	1	1842	
3257	11308	A	4200	1	587	GAEETWEPTDGSASAAQDGVQWCDLGS LQPLPPGLKPSSHLNLPSSGTAG*RPCAL PGKVPRKENLWLQCEWGSCSFVCSME KFFEHV TQHLQQHLHGSGESEEEEEEDD PLEEEFSCLWAGMWLLFSGQFCLTSSAM SYFHCYHTKLKQWGLQALQSQADLGPC IDCIEDACTSEIISLTSCVWGTTCEDD

						IPGISRAGTSSLISLTTSCVWGTTGEILR
3258	11309	A	4201	262	409	RSGGRNISRKSITAHRSISAPGSISAQGSIPALKSILAHGSIPSQG*DTPLGWDAPMG*DALEGWDAPLG*DASRG*DTMGRDALSG*YVPSPTPSSWANALPCHFLPQMFLPTNVMPNPNISAEELNCGRGAGWQEWMCPLQAPVNPNIHSCSPTASRGLRGQLSSQLPETAKEAW
3259	11310	A	4202	729	922	WFETIEATQLYFNEPDTFHCVLCLLCHFYINVKAFCSCSCC*NTCSLIFRPTVYYALML
3260	11311	B	4203	306	392	LTSGTYPKSGKAVEEAQPNSPAEDVRDR*
3261	11312	A	4204	965	1298	GNLVTAFQLVLCIPDESLYRSICFLHHLKHLISVPQSPRWGWTSLGLAGTPRCSPLPTPRLLLPQSPRPGKATGKIPRPDRRTPVRPLGHKEPRGT*GKSWPAVAQPPG
3262	11313	A	4205	1	324	
3263	11314	A	4206	310	513	
3264	11315	A	4207	65	191	QEISIMVGFKATDVPTATVKFLGAGTACIADLITFPLDTAKVRLQVRG*SLGVLMVSTLFPQRRHRPLKGQCLEHRDDWRWEGQHAYPCSYPLALQIQGESQGPVRATAAQYRGVMGTILTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEREYGARV*AGNQHHGWVQGHRCAPYCHCEVSWGWHSCSLHRRSHHSSGYC
3265	11316	A	4208	12	237	NFKYILFKILHLGEKIYNNVYTCFNNLFHCTTYILYNSTINQPKKITS*HLNKNLPCKKHSMGHYKVVFKIFFK
3266	11317	A	4209	361	444	QRLKNNCVITCS*QRPRVFSSSPQGLAACHYRGLRSSPQSRGRCLSHFSCQGVHPRSCQRGSAWSPRTTGQRGPTVGTGRTRKRLNTAYLLGAASADILRPISTSR
3267	11318	A	421	3	377	
3268	11319	A	4210	89	198	APP*THKWKIPHTSCDRSLSTCWHTTV DSTSLREK
3269	11320	A	4211	119	698	PTLMLHYIPWGRGRLGGWGQCGQSHSARCAGTGTCLPMGTLMMHEASRQVWGGCILPLFPYFLPQLPS*LGPSNIWVAKDGWLRDLDLPP*YEWTLGVNWPSPGILAYWTVSAPSLGFSGPITDAALPCPYNLGGSSPHPRRGSRFQKTGLSLTEGNLPFPPIPTPYLPHFLHIRVWPANVEQMCRK
3270	11321	A	4212	728	916	FFFP*SV*KVSAQG*SLWPGVAAHIYHFSILGGQGGGRIT*GQEFKTSIGNIVRPHLYKSGG
3271	11322	A	4216	162	528	LLPYGLDRGPYGGVWCGLPYP/SGTVSTGPPQRTASPLPKQSS/GPQPPEFAACTGTDAI*DARDAGDAGEGGSS/GAEPASSPAGAAGGGCGLAARSQVPSEIRSGWLKGSPLQLASSGALVICP
3272	11323	A	4217	160	835	GGCGRRTVLVKDYQFFAEGRLIQFRWENAAARFSALAPDMQRQNFPPPTPPYGPGGGGWGTGSNFRGTPGGGGPRTALPSRRVRGVRTTRRTGPRS*ARNGSKSLSAKRRQLSRGARFGSPSPGGYPGSYSRSPAGSQQQFGLLPRAAADPPRVLQGHLLHLDQGVLEKKECLMSWKINFKAFKCLKIPWGWPRQTGICSGYKPNNTAILKHSQAKKEDTFC

3273	11324	A	4219	198	392	
3274	11325	A	422	1	621	MTKRCLDHRGEWLPAGGGGGHTEGTRC LHHAPVTWVGIEVDIFEQGISMLDAEAS FITNDLLGSALTCSFSGKKPVWLRGHT PKGNLDSEVLAGLSPCPIPLAGLTVNGQI TGDKRGSPDSKTRKTYFGKLGIANAQM DFQVEVTTEKITLGTGRASTFSWLDVT VTQDG*APLQGLQGGGLQGEGDHSGPQP NPGALSEPELV
3275	11326	A	4220	318	718	YHHLQGRDIPGNLRVEGSVPHPAVRPRF SASCSQPPFPPLSPHLRARARPRWERQK FTPSLDGSFWGETPAGGCGSHIHPWQGP RALFRRSQ*PRR*AHMEGRVGRSPLL HPPWEKTPS*LSGLTDRKQA
3276	11327	A	4221	1	563	ETFSSHFERPYLQFKAEPPLTSRGFVEKS TALHRISAHPESMMSEVHERALQQHPQ AQGGLLTREKMHADNNFTKTQDRHLHA SSDAFSGLRFGSGTSRGYQRMVPREEI KSTSAKSSVSLADTAPNFSRLLSNVTV MEGSPVTLEVEVTGFPEPTLTWWVAYN DKP*METNSITEKNHSVSTN
3277	11328	A	4222	366	622	LSTMLHQHLLSVLLKLSQSLYVVYSFFLI QSTLQSGTRVTFCLKRLQAGAVAQACN ASTLEG*GGWIARAQEFETNLGNRARPCL
3278	11329	A	4223	43	245	
3279	11330	A	4224	634	1316	GSGPHSPGKWMVDDSDREHSRDRVRSGR LTLMVTECLSLQEFSNMDLWDFHKYMR SHKAESSELVRNSHHTCLYQGEGAHHIM RAIRQVRVRLRLTRLSPEIVELIEPLQVVRYG EGGHYHAHVDSGPVYP*TICSHTKLVAN ESVPFETSCRYMTVLFYLNNTVGGGETV FPVADNITYDEMSLIQDDVDLRDTRRHC DKGNLRVKPQQGTSSLLVPTCLMGKV GWVT
3280	11331	A	4225	506	708	FLMRSEFL*KVFPHP*HS*GFPCVCSLMS CVG*LLGEGFSTFMTFIRFFPWCSPDDSD GFEIFPLIS
3281	11332	A	4226	1	1662	MIISIDAEKAFDEIQCFMLKTLNKLGD GTYLKIIRAIYDKPTANIILNGQKLEAFPL KISTRQGCPLSPLFNIVLEVLAIRQEK EIKCIQLGKEEVKLSLFADDMIVYPENPI VAAQNLKLISNFSKVSQYKINVQKSQAF LYNNRQTESQIMSELPFTIASKRTKYLGI QLTRDVKDLFKENYKPLLSEIKQDINKW KNIPCSWVGRINIMKMAILPKGIASFTGY CIPKPEVILKLETGKEPWILEEKFRSQSHL EEPSEYNNNGNSFWLNEDLIWHQKIKN WEQPFYNECGKAFPENSLFLVHKRAYT GQKTCKYTEHGKTCYMSFFITHQQTHPR ENHYECNECGESIFEESILFEHQNVYPFS QNLNPTLIQRTHSISNIEYNECGTFFS*D RVSLCLPG*STVARSQLSAASISQVKRSS H/CLCLLSTSDYRCMPCLANLCIFCRDN CAMLPRLVNS*QNLKLISNFSKVSQY KINVQKSQAFLYNNRQTESQIMSELPFTI ASKRTKYLGIQLTRDVKDLFKENYKPLL SEIKQDINKWKNIPCSWVGRINIMKMAI LPKGIASFTGYCIPKPEVILKLETGKEPWI LEEKFRSQSHLEEPSEYNNNGNSFWLNE DLIWHQKIKNWEQPFYNECGKAFPENSL LFLVHKRAYTGQKTCKYTEHGKTCYMS FFITHQQTHPRENHYECNECGESIFEESIL FEHQNVYPFSQNLNPTLIQRTHSISNIEY NECGTFFSEKLALHLQQRTHPGEKPYEC HECGKTFTQNFTEHLRRHTGEKPGCNE CGKTFHQKLALIVHQRTHIRQKPYGCNE CGKSFCVKSKLIAHRTYTGEKPYECNS GGVRPALWDERSCGYVSAGTKRAEGEV

						WKGQGEEMGSIVERLVTL SK
3282	11333	C	4227	472	681	MNHKIYVYGHTQQFLYCSYVFKRYEFY SNPTLQGFLCSPHSYFYKYLTLTGRNLAI IILNIFAQWYQSL*
3283	11334	A	4228	2	277	RAEIPTAGEVWDGAGPMGAELKPWARQ RKVEMDHVGPPLSPPPGRS*SPGPGRGR SRWTMLGPFSPRPQAAVRGPRPGVLGSP REALEPPGARHPRAVTAAPRELQCGGST VRAVAR
3284	11335	A	4229	1	240	ALLGWVFNLYKEITTTTPSFRRRSYILGF VKLYVSEHFHFFFWVLYYFL*MHCEKFY FRRCNAGRRSQIMYIVFLKSLSS
3285	11336	A	423	3	2722	FSDGLCMVALSHLGSALQLGSLCFPRSPF RLLGKRSLEPGVANGIEVYSTKINSKVTS RFAHNVTMRAVNRADTAKEVSFDVEL PKTAFITNFTLTIDGVTPGNVKEKEVAK KQYEKAVSQGKTAGLVKASGRKLEKFT VSVNVAAGSKVTFELTYEELLKRHKGK YEMYLKVQPKQLVKHFEIEVDIFEPQGIS MLDAEASFITNDLLGSALTCSFGKKGH VSFKPSLDQQRSCPTCTDSSLNGDFTITY DVNRESPGNVQIVNGYFVHFFAPQGLPV VPKNVAFVIDISGSMAGRKLEQTKEALL RILEDMEEDYLNFI LFSGDVSTWKEHL VQATPENLQEARTFVKSMEDKGMTNIN DGLLRGISMLNKAREEHRIPERSTSIVIM LTDGDANVGESRPEKIQENVRNAIGGKF PLYNLGFGNNLNYNFLENMALENHGFA RRIYEDSDADLQLQGFYEEVANPLLTGV EMEYPENAILDLTQNTYQHFDYDGSEIVV AGRLVDEDMNSFKADVKGHGATNDLTF TEEVDMEKEMEKALQERDYIFGN YIERL WAYLTIEQLLEKRKNAHGEKEENLTAR ALDLSLKYHFVTPLTSMVVTKEPNEDE RAIADKPGEDAEATPVSPAMSYLTSYQP PQNPYYYVDGDPH/FSIIQIPEKDDALCFN IDEAPGTVLRLIQDAVTGLTVNGQITGD KRGSPDSKTRKTYFGKTGASPMAGMGF PGWEVTTEKITLLEQARCRAFFSWLDTV TVTQDGHFLASSRRLSMMINRKNMVVS FGDGVTFVVLHQ/VCWKKHPVPTVDF LGFYVVDShRMSAQTHGLLGQFPQPDF

						KVSDIRPGSDPTKPDATLVVKNHQLIVT RGSQKDYRKDASIGTKVVCWFVHNNGE GLIDGVHTDYIVPNLF
3286	11337	A	4230	1508	1686	IFFQPKECLYKNL*GLGAVAHACNPSTL GG*GGWIS*VQEFETSLGNMAKPRLYKK YKN
3287	11338	A	4231	596	729	YFPNKHGILCRVQWLSL*YQPPLWESEV GVLLELKSURTAWATW
3288	11339	A	4232	1212	1344	ATCLSLEKIQKLLIQNPGR*ASCDSSLL GCSPDLSSHFTVL
3289	11340	A	4233	2	114	
3290	11341	A	4234	1	326	
3291	11342	A	4235	37	199	
3292	11343	A	4236	3	263	
3293	11344	A	4237	164	298	
3294	11345	A	4238	60	152	
3295	11346	C	4239	512	805	MSSLPLMITDTQQAVSSGLWIGIPNYRVF TPTGTWVRXPHATESLHKFNLNRTWEM GLQRRVXTXGTNVKALESAAQPPWNQ AGRGDNFLLWRKGGD*
3296	11347	A	424	1168	1627	RAGRGGEHKLNSYGGRRARSQGHLLS SALSPFVSAASYQPPQNPYYYVDGDPHFI IQIPEKDDALCFNIDEAPGTGLRLIQDAV TGLTVNGQITGDKRGSPDSKTRKTYFG KLGIANAQMDFQVEVTTEKITCGTG\RA\ STFSWLDTVTVT
3297	11348	A	4240	1	361	EPRMLYTRYVSDPEFVISRVDDFVVLQL FRMSSLPLMITDTQQAVSSGLWIGIQIS LTQPGSTIS*YCSFFKSVIICHLMIT*YTTS SFFRPGCLASQIPESYPAGTWVRAPHAM EKL
3298	11349	A	4241	545	865	PNNKHPYKSVTILSLCAVLFSLYIFNSGH FYFTSSIQRHLNPKFNNLFYQTFVLR TK FL*II*QIKAEPLIVEHK*KIYYKKPYLFNT QVLALKLKR*GFLYIIS
3299	11350	C	4242	47	319	MVFHKARTRMKERTDTAMQAESASETN KRAHPALPPVLPGXGRWARRGQEAPRP HLLSPQSGGGQAPPWRERGVTRLKLG EGCRGRLAP*

3300	11351	A	4243	211	472	STLGGSLCAQSGCSFEPLPLRGHPAMPV KCAQPLFS/SPCPPCLPRAAREGEQGEHA CWFQMHFLLALPYLCVPSSWSWLYGTP CF
3301	11352	B	4244	1	1023	MCWAPSTRGGSPALHPLLLLPHPLPAR CTGFRAPAVPSSPAGIFGHIAVIGSPFPTA GGNTSDSFSNGCSQDVGSPRLCGCGLLG VGIWLSVSQGNFATFSPSPSLSAANLVI AIGTIVMVTGFLGCLGAIKENKCLLSFFI SPVAELILLILFFVYMDKVNENAKKDLK EGLLLYHTENNVGLKNAWNIIQAEMRC CGVTDYTDWLPASAGGEHGSRLHGR PRAAGATAFRLCGERAAMKRSWGMAFS MTLFQHIHRTGGNHVHLGPKIFASFPGA TDISSGLGGDYIICDPKEKKYRKPKREPH LQ*
3302	11353	A	4245	630	841	DTGPCWRERGVTRLKLGEGCRGRLAP* HLLPPPKSSSQPCAPLTPTAGWLPEEKAE VCSGCPPCSPSYKP
3303	11354	A	4246	29	360	HSLISQREKESERERARESERE**RASERE RERGRDKIPTRKGEEVQFLQTHFFFLIF LTAFFEQYFKERGSYYRYRGCKAKKGG RGEEKNSRSRNPSSFTGRKKRV
3304	11355	A	4247	253	451	NWSAGAALLSAAPAHTPSPHQARPTPGS PPSAALWGSPSPSRSPHFSPTPDL*MRPE RHPSSAPF
3305	11356	A	4248	355	500	ARCGGMHLYSQIFGRLRWEHCLR*KVLS QVWWHAPVFADIWEVEVGALLEARSLR L*CAMLLPVNSHGPTWAMQ
3306	11357	C	4249	175	387	
3307	11358	A	425	87	508	MGCFIREGEGEENLIKKRFVSEAEADV RRKRRQEEWENVRKPEDPEECPEEVDYD RSLYERLQEQRKQELRGTVSNCKN MVRGALDEDETNFLDEVSRQELIEMHR IEEELIELNEYRIALWNVGISYENYEGRG
3308	11359	A	4250	342	608	AGSGTIGMLRPADERGGQSRGRSAHPI SQAAPCPAFLNRPFTGPS/CGPSVTSRNT AGFCPE\GPGCPPSLAEASCPLPSCRAGS HWA
3309	11360	A	4251	56	277	TVSVQRHQAVQSPVVVFTEHIPQDAWCS PSCAPGN*PPLCPTNKPCALQQGMKPL ALKKSLGGTVCCGSKRD
3310	11361	A	4252	235	721	DLADCSLQLQSRSSWKKCSTMLQKVLV PPEAATSLSHPTPRPLPHPPALGSPQPPS NTFGP*CCLSQDAPVFPSPVKLHLVTVA SSLANESRKGPSRVFSRTPAPSSSSITSIS DSGIQNATVWSGVRLSVSASSFGLTSPF SASGVLSVSPLASTL
3311	11362	A	4253	1866	2283	IRILYRSPHLQLPCLTRFLVKKSYSVTGN WMVSLKD*SLRLDCWHGPLNLVKLDEV WQNLGTSTKSLL*NNFKNILGKINTFKTL FGGGMKLIPCKVSFSIYLMVNLESHDST WHLQANQTPHFDVSPVLVLEFPFKF
3312	11363	A	4254	2	767	ELLFDKSTMRRPFGQKASSLPPIVGSRK KSGGNDRHKSSTVGSSDNSSPQLKRKG KKEDVNSEKLTCLKQNVKLKNSQETIPN SDEGIFKAGAERSETRGAAEVQEDDTQ VEVPVDQRP AEIVDEEEDGEKANKDAEQ KEDFSGMNGDL*EEGGREATDAPEQVEE ILDHSEQQARPARVNGGTDEENGELQQ VNNELQLVLDKERKSQAGSGQDEADV DPQRPPRPEVKITSPEENENNQQNKDYA AVA

3313	11364	A	4255	79	928	TWQRCNLNPCLHIPVLCSLSSSTMWDVLL PLDRGDLHLSCIDSSNWALFRCQSKVVL YHCVEADSKGLRSVDELTLNKTNLELK MESQTEKLNLYLRNNHEEAGTTQNEFKV SVCQYLSRYGGGGYHYKRQSFHKTQSK ELMGRHRLLLTIANRHEIAELRWTLQTL EELQQAQWPLVRMLQQ*EP*ERLTC*R* RENQEPPVQVVEEQPRANTKETRKKSSF SQPMSASTKEESQDGRRKGK*LKGRARE GKMLHQKSLGFKEYFEGRGAGPTPSGPT VTQLK
3314	11365	A	4256	235	674	SGKQNNPQATAKAEACTETRSQMGATE TSSTFDYLGATSLKSPPHRKVVFFCFDIET SLHSNSL*ILLPLHSISNIQKQTQTSNLNIN LQPATAGPPSQAPPTALSELPGGRSAPEP SHAAPFPARVPPSSGSPRPNARWAARA A
3315	11366	A	4257	60	471	CLGSLQPPTRVKQFSYLCLPISFFFFLFF FGLFLRFSLCHRF*AV*L*CSLVLFSSCFL CLGFAMVFGSVGL*FSSLECFQALFLQT FLLSFPLFMNSN*PCIRLTEVVPRLSDAL FIFKNSFSCCADAWADAW
3316	11367	A	4258	392	517	MTLKDVVAHACNPNTSGGRGGWIT*GQ FKISLANMAKPRLY
3317	11368	A	4259	446	767	IWYKSTHSSVIFKCEFFLQFLSQLALSPR HECSGAIMAHCSPLLGSDDLPAFLNFS WR*CLHYVAQPGLELLGLK*SIPPWASE SAGITGLSHHAWPKYELLF
3318	11369	A	426	90	549	QGASQTTTSETSCLGIAR*TFLGLAFVRIE RIDGNLKMHLIVEPYVTWGFNPKSVRE LILKRGQAKVKNKTIPLTDNTVIEHLGK FGFICLEDLIHEIAFPKGKFQEISWFLRPF HLSVAHHATKNRVGFLKEMGTPGYRGE RINQLIRQLN
3319	11370	A	4260	119	342	ISICIKININIYACYVYIILCIRIYLSKYILL ENCI*CTILFYVIFYVYTYLHIIYILLRLCPF FIYSWSPV
3320	11371	A	4261	374	471	GKK*KCPHLSHLYINPGEKSYLFETSGL NF
3321	11372	A	4262	255	496	LYKFQTSVPLT*FIKALYITFYNSR*RG YYSKFKT*S*RPGMVAHACNPSTLGGRG GRIT*SQEFETSLANVAKPHVY
3322	11373	A	4263	231	417	CELPVTRHGAGCVCSSDTVLP*PCPFSPV SQSPSVCLSPLFSDPCEPPYPVLESPLDC SF
3323	11374	A	4264	1204	1398	ASFLAISMSVVRVGVPFYHLFFLRQSLIL SPRLVGVR*CDRG*LQPLPPGYK*FSCLG LPSSWDF
3324	11375	A	4265	581	705	LLAECGAHACIPSTLGDQGRQIT*GQEFE TSLANVVKPCLY
3325	11376	A	4266	3840	4074	AQEYRQQLRQYSETMSLQKKFKNRSAG CGATCL*SQLLRRLGWEDHLSPPGGRGCS EP*SHHCSPA WVTEDLSPCHP
3326	11377	A	4267	173	421	
3327	11378	A	4268	423	595	SCLSINFHLGQAQWLMPPVIALWEAKVG RSP*VRMVSIS*FRDLPASASQSAFNISH

3328	11379	B	4269	1	1224	MPTVGKAQARRRTRDTLLDITQVLIDQ SPRKDTGLAQQTGVIVPSKGIVKYWRAQ LKGDMKYASPAFELFYFSVRAQSTDGIV TLLDPTTREDCDISSAPNPEVRTQRQAEV AGVGLLAVKVPRDEEGVLGGAPGPQKR SRVCGEPTLQRRSGPLVARPGSRCPPPT SVSSPVPEDGYGRTVVMIRLDNPGISGRT IENNPELEKQLPGEPSENSPYLGPPQVLF LLRDPREDVMLLLNQPTTAEKQAVLQ AAEIFRNEQQISYNTSKGKKGDRECEIA ETPFQIGSEAVPLDNPWNSSSSAGEWK RRHFILICILEGLERTKAKFLNCSKLSMVD QKPDENPAAFMERLREALIEQTSLSQSDV EKQLILKDKFVTQSASNIRRLKQQAIGP ISTLKNLLK*
3329	11380	A	427	215	870	RAPPNGLTQQKKGKGLRFRLESFLHD SWRQKRDVRLRRLEVKPHALELPDKH SLAFVVRIERIDGVSLVQRTIARLRKKI FSGVFVKVTPHNLKMLRIVEPYVTWGF NLKSVRELILKRGQAKVKNKTIPLTRH/S Q*WRSTWGKFGVICLEDLIHIAFPKHF QEISWFLCPFHRLSGPSCYQK*SGLPQGD GHTWAIGVNASNQLIRQLN
3330	11381	A	4270	1016	1393	IFQLGEYIFLFLFSVFEMESHVTOAGVQ WCNLSLQPLPPRFK*FSCSLPSSWDYR QMPPCLANFCIFSRDGVSPCWPGWSQTP DLKRSAGLGLPKCWDYRRETTAPSMFL QNLLALVPMQOR
3331	11382	A	4271	825	1246	RAEGFCPNWCCQSNILIPCHDPSRSAQS DWACHLGWQGGSGQNHGVPAGDAL QLPGNTRVGAPOGGSGRGRKDGPGNS H*AHGTGWRECYGDRSRKRNQFWHL APPRSEIFLILACTLRSNGSASCPRSCFDS SFLRVPRTGFRWGSTWGVTPGI
3332	11383	C	4272	442	522	MRCASPSTSKFSCALLQCWLQDLG*
3333	11384	A	4273	322	1025	PLLCVLLAPPEGAVGDICKEDAGNMPS TSEGSYLEMAHFLRNKLAGSSVRKPD GFLWEGALRAWSNMAAPSGGVNCEEFA EFQELLKVMRPIDDRIVHELNTTVPTPSF AGKIDASQCKQLYESLMAAHASRDRV QKNCIAQTSVAVKNLREEREKNLDDTL LKPT*EKSQRS*KWVQSELNVVEVVNDR SWKVFNERCPNSLQASKE*IKRDSFFFF FLRTGSSHKS
3334	11385	A	4274	22	54	
3335	11386	A	4275	506	622	TRDSAHAYNPSTLGG*GGRIA*VQEFKT TRAHSYTLIPT
3336	11387	A	4276	296	495	KHVRPYITHSLGGKDFLILEKIWLGIVA HACNPSTFRGQGGRTA*A*EFKTSLGNI RPCLYLKT
3337	11388	A	4277	270	558	FWIFLRSFYVIRKHLIGHFHPWPRVLKC* KHGGWKVHGGPGQ*RQKGTGKEGRKG LRGRRELTEGARPLFSSGPVESTQIVPLP QPPYVGAAAS
3338	11389	A	4278	51	113	
3339	11390	A	4279	179	387	ILVGFCCFLPPPSNK**THTHTHTHPH THPVVTNRISLQIGCRKGKQKTSQGPFTA TSLSPLSDSAV
3340	11391	A	428	476	821	TFTWPLFVRIERIDGVSTWCREPLQDFA LRKIFSGVFCCKGTPQDSKMLRIVEPYVT WGFPNLKSVRELILKRGQAKVKNKTIPL TDNTVIEEHLGECYSLGVSWSGRKPGSLK L
3341	11392	A	4280	464	596	EFSPGMGAYTRSPSTLEHSGQIT*AQEL ETSLANRVRPCSYMW
3342	11393	A	4281	468	564	YAFYRTQVPGGIRLV*CRLRVLWSNLIK KQS
3343	11394	A	4282	780	837	

3344	11395	A	4283	993	1050	
3345	11396	A	4284	175	387	HFGEAEAGWITRSGDRDHPG*NDETPSL LKIQNISRWWQAPVVSATPEAEAGEW HEPQEARACSEAEFEP
3346	11397	A	4285	161	409	PPGVYYLFFVKVRLIWGNVMTV*VYMTL LSFPYPQICIYTYIKYVYILPI*NIYIYTHIC IYIPLFLCLLILAIKEGAAFNV
3347	11398	A	4286	1910	2120	SVSGFWLEAMLPSLSEGGQPCRLQPFIGN KSLTGWVAHACNPSTLGG*GKWIT*AHE FQTSLANMMKPCLY
3348	11399	A	4287	1156	1320	KNSS*FFYFLSYLKNKNRPGAVAHTFNP NTLGGGWIT*YQEFETSLANIGKPCLY
3349	11400	A	4288	1497	1767	PSASPPQVPIPALPQWTGPGRQNPL*CLH IGLCSPQPSDGPWRKACSLFQVPSHQCG RIRKKINKVHICVFTASRVRWPKPAAA NDQL
3350	11401	C	4289	1434	1655	MKKFSLHKKKFFCTLVPIIMLKLMEMLK SQCKTKEGKYCTLAENLFHHKIHCPS DHRSHFSLELAVVKKL*
3351	11402	A	429	33	370	ATRSRLGKHTRRSKSAIQAVRIISQVLR CKQRCMHCPRTIPATLQEHKSVNNPSAQ QRTKTWSIHTPAPHPHPAPHPSTHQ/HPH PST/PAPHPSTHQLIHPHTSISSIRTRG
3352	11403	A	4290	275	485	TNWKLSLCEKLYSTHFCTDHKAVLFP*C LSCFVLLCVLFICVLFVGFRFLSFCFVFTT SVISTSFFLAVS
3353	11404	A	4291	889	1199	KKCVCVCVCVCVKC*LLKLMLVGNFRA LWGSEWFLHHLSSTNRKMLSQGHV
3354	11405	A	4292	502	768	SPCDQTPVEEGMLPKFRKSLQGFSLNFH DILILPSQK*FCIRGSKTMYIWPGTVSHTC NPSTLGGQGGWIT*DQEFETSLANKVKP RLY
3355	11406	A	4293	3	309	IFGRDGFHHVGGAGLD*TPDLK*STHLG LPKCWDYRHEPPCLARRYFKNNNKKDN LLSHHTHKTTVNILPIFSSCTDVFLHNHD VECNVFSLDLVNIFQSC
3356	11407	A	4294	204	317	
3357	11408	A	4295	1905	2032	VKHLDGTQK*GCNAFNVGQSGPGPDAA PRWASRTPGGVNAGI
3358	11409	A	4296	2	225	KWQVTWLSFCSTFMSPSSWSSCS/PPCSA QPYAPVSCDGPFRFPEPLD*GRLKTY FPPPCVNWGCWGQCVISQ
3359	11410	A	4297	299	663	IAHITEIRNLILHSLNNPLWLEPTRIEFSP RGKVTSLHPRVKMSPSSPKNSHPPEEV GSASSFLREPSPGGSQHSPYAPSIDAM VPPYRVP*TPFGIKEDLKTPLFWGITFL PCV
3360	11411	A	4298	1	406	MDWEGSLPLVFNYCRDASLIHPRFKGV RPRRDACLGPSPLAASPAFLGKGQTITDA ELRVTLTVEDSARLHPGEINSHVAHTKP VWWSLHTDARETHLQRTHFQSWLV/ CIRP/MNPAKSTVSSVRTQT*APLP
3361	11412	A	4299	236	768	VPCRESRALALPRKEMMRA*NQNKTK HDSRHCRISPVGNMDIAENNYNSFKAEL GPNSSASTPPYNLFASPPHTCSGLQFH STITDAELRVTLVEGNRMSVVRSSFLGL NQLKLAKSMMAAYSIFEEPLASLYSNFH TK
3362	11413	A	43	46	511	QLRMAGAEGAAGRQSELEPVVSLVDVL EEDEELENEACAVLGGSEASEKCSYSQGS VKRQALYACSTCTPEGEAPAGICLACSY ECHGSHKLFELYTKRIFRCDCGNSKF*N FGMQLLP*QSK/DVNSGNKYNDNFFGLY CICKRPYPDPDEIPDE
3363	11414	A	430	42	334	

3364	11415	A	4300	302	897	SVAKEGVEVEVSHTCGLKWGDIRGGCE GGFGLGEKAAMRCGCSFGIVREADNLV KVSPPSVLIKKGTDLPTVRVTRRSASV MVLTMPLAPATFLRGNCWAGGGGLVTE *NCKPDQV*GGEMIKGL*GGG/VRGCGRI ET*LGLARRSLGRRGEVRLVWRSGLLP KYCAFTVFTTARPGDPLCLAQWVPCP WSLAHC
3365	11416	A	4301	111	275	SRNETESRTRCEEGR**KDYRVEEQRLR KNWDLARPGKEQLPAFQSGNLSRQLH
3366	11417	A	4302	3	220	SLQPLSREDLGRSQESLGPEFQGLWEW LPGELNSPICSQVPHRWDA*EESWAAG SPWPGQISGTCSKLL
3367	11418	A	4303	2	347	LTMLAPATFLRGNCWAGGGGLVTE*N CKPDQV*GGEMIKGL*GGG/VRGCGRIET *LGLARRSLGRRGEVRLVWRSGLLPKY CAFTVFTTARPGDPLCLAQWVPCPWS LAHC
3368	11419	A	4304	2	265	
3369	11420	A	4305	3	865	
3370	11421	A	4306	288	597	TDFSVRCKGCRTGPFLRLIFQDRIVGVEL IAV/C*RHGPRFSSCRLSCRRPFDKTCRL MCHQRLSGFPQEQTQRDSRCIQLLRQR FAAASCPTHQVLLQTQYF
3371	11422	A	4307	3	188	KPRRSRSESLGPEFQGLWECLPGELNSPI SSGVPQRWDTA*EESWAAGIPWPGQID FWHL
3372	11423	A	4308	498	803	HLGPEFQGLWEWLPGELNSPISSGVRHR WDVA*EESWAAGIPWPGQISGTCSKLL EEVLEEGLAAAVQAFGSSCVLEMWLG FVSQWRQGIATFFYYCTP
3373	11424	A	4309	3	338	KPRRSRSESLGPEFQGLWEWLPGELD SPISSGVPWRWDA*EESWAAGIPWPGG QISGTCSKLLGEEVLEEHLAAAVQAFGSS CVLEMWLG FVSQWRQGTATFFYYCTP
3374	11425	A	431	55	1078	SERRRGPLCLPSDSVLDSCGPPMYCGIAE PSLRRWDPQRSPLASCRLLGCLAIRH PNFPRPIASSILQIKMATAAAAAVMA PPGCPGSCPNFAVVCFLERYGPLLDLPE LPFPELERVLQAPPDVGNGEVPELVEL HLKLMRKIGKSVTADRWEKYLIKICQEF NSTWAWEMEKKGYLEMSVECKLALLK YLCECQFDDNLKFKNIINEEDATMRLQ PIGRDKDGLMYWYQLDQDHNVRMYIEE QDDQDGSSWKIVRNRNELAETLALLK AQIDPVLLKNSSQDQDSSRESPLEDEET KKEEETPKQEEQKESEKMKSEEQPMDLE NRS
3375	11426	C	4310	321	734	MIKHQKKAAPVRRDRRQSFVSTDKTCLL CLSQKMGIEIKRRERLKSQKEKVWLRD RERLEKRTILRASVFKGEKPAAGERGKV WSCDSIHVLQEKGRPQISVLCILNHRKY SPRFSVWSLKPPSMKLEVRKCCQR*
3376	11427	A	4311	867	1111	RHCRYGTR/ARCRSANAGAMILTMKQL AIVMRVYQHQRSMRPGRNARSMS AVGAYYSSCIRVMTALQSGTGDDEAVL L
3377	11428	A	4312	1	560	
3378	11429	A	4313	2	268	
3379	11430	A	4314	11	783	NLFLRPQKDQTYHRIQLGQTKHLLKEL KVYTYLLYATISF*DV*RHC/RSAILAEAK ETKETHFIRGPKTLAPVTDWEGSLPLVFN QCRDASLIHPRFKGFRPRRDACLGPSP AASPAFLGKGQRLKTDARLPWKPPDH HRRRASGNSHSGRVQPPSRLPSWAHVEC LRLFQEHGASCQWIYRSIWRVTFMC VRVKRPPNRLCVSNMAVYFTWVQVHYP LYENNKTLRALRMIHVESLACGVRESS

						TNDNYY
3380	11431	A	4315	177	434	LCLWLQPPF*E*IAGQVGEG*SRNETVSR TQCEEGR**KDYRVEEQRLRKNWDLAR PGEEQLVPSSEKRDPLRVKDQGRCPCV V
3381	11432	A	4316	1332	1602	
3382	11433	A	4317	797	954	
3383	11434	A	4318	1	817	
3384	11435	A	4319	3	93	LSPS*AIISFVPCTYTPRWPEATEDPQKK
3385	11436	A	432	1	568	
3386	11437	A	4320	874	1114	ESLGAQAEDYCRSGALTESLY*SSSKRK CGVGVPKQSLLYSTV*WSCGRGSLSRFP QNDRASSFPQYEEKSTEAKLPKGL
3387	11438	A	4321	264	1259	GDRWEGKKEDLGRVALGTETRKGLMC KRMPGH/AGTSDHLSILGQELFRSCRME KLK/RAI/CPAIWNYCRVCIGVKRHCRRK *DA*ILQDLNNSCPKIDKWSEVPDVQAFF YTSVPS
3388	11439	A	4322	607	769	SQVLRPTQPKEHLANFKSEDRSVRPLSPS *AIKSPVTCTCTSR*PEATEDPQKK
3389	11440	A	4323	495	658	GLTGTTWAHAFTHWLVLVLSHSTELSGC ERLCGPAELGTFTLWLF*RKPFADHWP
3390	11441	C	4324	218	352	
3391	11442	A	4325	444	994	PMTHPFFFFPAEVHEPNQRQAFLVPVSQ ARWTASSLFSSWVSASTSPQLEELQGST QTWHFSA TC SQPSRCVETVDPSSLLTQ QGLAFSAPTGRQAQRCSARMAWNP GDP LPPPSVHPCTPHCP*GPPQPPSASTPWG SCCSRWGHQA ILGCRDRERCRTCSSRP WLPLCLLPRFPDKWS
3392	11443	C	4326	296	625	MVSEGHSTPLAKSSASELHRTSWSTDNG MDFWRECQFRAKEIQGENEALNKSSKR AQKLVS DLNMERQVRRKYIVNAGSL LH FILSLLSSIHLKTAFCVLLQGNLYTL*
3393	11444	A	4327	221	344	KVLSSDFCSVPFCVCVCVCVCVCVCVCV LTLL*NSSIYYGH
3394	11445	A	4328	441	656	AHNYIYFQRYIHIQTYTDTGRGMRI GMR DQKKRPGTVAHTCNPSTMGG*CRKTSQ GQEFKTRLSNTVRPNL
3395	11446	A	4329	409	749	RRGRERKRHTHIHTHTANLFVSVFLY FLSFLHLCALCLS*WM*RCSANPILPTGP YASQTFMILPSC TTVISLPCHWLLFPQYS QTLYSLFTELNGQITVTSAKITYTSKI
3396	11447	A	433	1	572	ANNSPALTGNSQPQHQA AAAAAAQQQQQ CGGGGATKPAVSGKQGNVLPWGN EKT MNLNPMILTNILSSPYFKVQLYELKTYHE VVDEIYFKVTHVEPWEKGRKTAGQTG MCGGVRGVGTGGIVSTAFCLLYKLFTLK LTRKQVMGLITHTDSPYIRALGFMYIRYT QPPKDLWDWFESFLDDEEV CQQG
3397	11448	A	4330	1682	2410	LNKGGQTDIASSQTC LVGHVESDGALHT TMIGPNEP AFLSPENNNCP IWQRERWTH QKKKMNGMHTHRNEAETIAGILTVQE LFPRNTSLTVIDVHSHSVLFCTTIQVLISQ VNHLYLPLPQAFKFPVIFIIITSTGLLFTYV RVVMYNFVISYNGKKNQNI*KVICTELY FSSFLKMICMVRKRRGQPGEGRASRELC TFYTFVLCTALLILHPIMILLEPICKKLLR

					KFICVYVNNTT
3398	11449	A	4331	2	57
3399	11450	A	4332	19	192
3400	11451	C	4333	218	364
3401	11452	A	4334	172	304
3402	11453	A	4335	258	509
3403	11454	A	4336	1	2411
3404	11455	A	4337	17	300
3405	11456	A	4338	257	476
3406	11457	A	4339	283	494
3407	11458	A	434	6	223
3408	11459	A	4340	766	1083
3409	11460	A	4341	2	163
3410	11461	A	4342	192	440

					YD*T
3411	11462	A	4343	1875	2210 PLSQVITGKHQKRKRHLEEGKERPEKEQ SKHKRKKSYEDTDLDKDKSIRQRKREED RVKVSSGKLKHKRKKKSP*VYPPRKKN VSTGKRKRNLKKGQKRKCFGMSLFLG F
3412	11463	C	4344	217	396 MSEETAKEVMRAYLQQLRQETGLRLCE KVFDPPQNDKPSKWWTCFVKRQFMNKS SLXPGQ*
3413	11464	A	4345	1	546
3414	11465	A	4346	216	324 VFFFSL*NEADRTLIIYITLYISECLKKLQK VIKLG
3415	11466	A	4347	71	650 NPGAAMKPAYHS\SLMDPDTKLIGNMAL LPIRSQFKGPAFRETCDTDIVDEAIYFK\ ANVFFQNYEIKNE\ADRTLIIYITLYISEC LKETA\SGNSKKPKVEERKCFILGIH*FF PFP\GEPGFFPL*RQFFAKP\ANKQEDVM RAYLQQLRQETGLRLCEKVFDPPQNDKPS KWWTCFVKRQFMNKSLSGPGQ
3416	11467	A	4348	552	872 SGPNCEEADAQLAEESGNASHTSFTV* VRPRRACHACNPSTLGG*GGRIA*SQEFE TNLGN\TVRCRNSGEVLNRKTVSIRRAL RVFSPLHTARLHPAAAAARAARA
3417	11468	A	4349	199	375 FSLGGIPPFHRRGNWVSREWPGTVAHTF NPSTLEGRGRWIT*GQEFETSLTNMVKI CLY
3418	11469	A	435	3	685 RTQSGNVYFASTSVPPRPGAAPGHILVLS RLQPLRAEVSRSRLRVEYSYVKTTLV FKGT\KAKSKKKKSKDKK*QREDEETQL DIVGIWWT\TVNFGEISGTIAIEMDKGTI HALDNLFTLGAPHKEVDEGPSPEQFT AVKLSDSRIALKSGYGKYLGINSDGLVV GRSDAIGPREQWEPVFK\MGKMALSTSN SCFIR\NHEAEDIEAKSKTAGEEEMIKIRS
3419	11470	A	4350	368	546
3420	11471	A	4351	2	211 YVYIYKGIERSVSRAICTPSMAALVDKR WKKPKCPLMYEWINKM*YTHTEMYYTE *KRKYCSTLSHATI
3421	11472	A	4352	1	676 PK*WGFLPLIYKKGKDGGGTWGGDVL PSPSLGQGGGKKGWPKREGGRDLGAERK AGKCREKWKQSKMKGRSRKTGGERVK KPEKHQDTGLFPFQIGGGGLRLSRVCVP QPQVGRGSVSLAQFLSCTSSD
3422	11473	A	4353	1029	1252 CKFVYSSLLFIYSSFFICLFIFLPFAPVLIYP LAH*LCKPCSSYMSWVNIQYSIYFRHKC FRNIVQKILYSIKM
3423	11474	A	4354	299	561 FPSWQRDAQASLTSPAPLIYPKATPFRKR PFRRQLWNKGLIQSKLTQRLYTVAHTCN PSTLGG*GRQMTWGQKFKTSLANMVKP RLY
3424	11475	A	4355	17	195 FMDAQVTFKLYIYIYTYVCTYMYIYTY V*MCEYLFYIYARIYMYI*MHYTYISL TP
3425	11476	A	4356	3	565
3426	11477	A	4357	1	597
3427	11478	A	4358	1	567
3428	11479	A	4359	1596	12368
3429	11480	A	436	115	662 AGFSLSAQKSPGAMA*YSYVKSSKLVLK GT\SKKKKSKEKKRKREDEETQFD\IVGI W*TVTNFDEISGTIAIEMDEGTIHALDN GLFTLGAPHK\ERIALKSGYGKYLGINSD ELVV\GRSDAIGPREQWEPVFQNGACAA VFTVIGSEKQSECSLLRESRAKYHGCTH GOISSSLKQHPRWMY

3430	11481	A	4360	48	436	RTGSSSGLSISATCLISORRYSEDCWNVY SLVRSG*ERGS*LLSTYYVLGSLPDVFTY INSFQKTYLK*MGPGMVVHAWNPNSTLG G*GRRTA*GRELETSLSNIVRPCLNNNNN NNNSNNEVNGIRKEG
3431	11482	A	4361	2	2551	
3432	11483	A	4362	322	1288	RKNWGLRKIPWSSSLKQEQNLPEFSGSKK AFFGSTWRKKDGEPEFGSLGCPLLKAR PLLSQLPLLRAISTRKPGQTWKNKEHHL SDREFVFKEPQQVVRRAPEPRVIDREGV YEISLPTGVS RVCLYPGFVDVKEADWIL EQLCQDVPWKQRTGIREDTYHQPRLTA WYGELPYTYSRITMEPNPHWHPVLGTL* NRIEENTGHTFNSLLCNLYRNEKDSVDW HSDDEPSLGRCPHIASLSFGATRTEMRK KPPPEENG DYTYVERVKIPLDHGTLIME GATQADWQHRS AQKNTTLREPRVNLTF RTVYPDPRGAPW
3433	11484	A	4363	249	906	RIHFPRVSGPSQSNPKFAVASRGFFSLSL SAQPDPLPPLGEALALSLHPVPRRSTET VAGDSSELQLGLRSPQQPLAGLAFLARL FLLFPPP*RCKSKPN*NDRRSSVDSQIHL VGRESAHLA GLRVCSLPLLARCFGQV LQGVPLWIPSPGGS/AGVSGRRREERH MGVVVMRVRVEARVSS*ESKI/SRALR*S THLGLPKCWDYRREPPCPAH
3434	11485	A	4364	843	1186	QHSTKNSGGWAQTPYGSSQISVCVYIHT YIHIYIFFFFLVETESHV TQAGVQWHN LSSL*PPPPGFKRFFCFSLPSSWDYRRTPP HPANFCIFSRDGVSPYWP GWSRTPDLR
3435	11486	A	4365	127	601	NLILNVTWPTQLAKQERLHLRLKTSVV WVVRKEKPTRFRLGAVSHCPQLLILQL VLSPSTSKTLP*EPDSESP*PKRK GKPSW GRTGAPNLHSPPLSPEGPPWAAWNPLKL PPQHSSGAVPSSACSPWAGSVPAAPPSV CYLIYWNLHSQALAH
3436	11487	A	4366	30	436	RRRCGCGFPALPGSPHPHEQLPPLCPRV PVA*PSSAEHPDPRAGKGGGRGL*AGS SPGAVPHPPSIPGRKNRMGSLEG/RGAP APRRGGSGAGAAE/ASLTWPGSTGPAPG SHGCSAGVGPSRWAWSLPQRCGR
3437	11488	A	4367	497	924	KRGSRGWFFSTFHHLWGRLQAHLLGPT PALQPCDPGAGARTARPGQTASAAPPL PPRRGAGAPPLRDLARVPAPPCAQRAP PSSSQGRNQ**AASGPWRPPRQAEKEA SAGKRRDRPVGARKTAAERDRRGQASG GQTR
3438	11489	C	4368	226	405	MCEKQPQNTTSFQGSYPKYTRGSLPELR QLLKVELFKKGNWEHLQPRSMMLVRSG LSQE*
3439	11490	A	4369	3	275	TSMYVGPVAKDLLHPSAEEENRKHTMK RLAQSPNSYFMEAKSP*CYKITTAFTHA QTVGWVWGCSTVLCQPTGGEARLTERC AFTRNQRF
3440	11491	A	437	1	380	GPPASVRTDSGHPRRAEGAVSTRTQAD PLAPCGPPRPAGGQGAYARLLLLQCLLA AARPSSADGSAPDSPFTSPPLREEIMSN FSLESHNISL TEHSSMPVENNITLERPSNV NLTCQFTTSGD
3441	11492	A	4370	266	455	AQWHTSIVLAAWEAAAAGLLEPRS*SRL KCTMIIPINSHCTPAWQHMRPCLLKKNF SNSFISK
3442	11493	C	4371	409	507	MNTRFLTCVPGWVKNDNYSIVCIDFPLV VIAI*
3443	11494	A	4372	870	1027	HLCMCVRVVCACMCTLLHLFSNGFII* CFCTST*AIHVMG*VAIKMYINDP

3444	11495	A	4373	1	690	FHHLEDSIIEIFDAFLT LRKKKKKKKHNG NMPIFSKLFHVMV NPMKISTSLFF*HKYMI VPISPQSHQYSSNGLSVLFLPVYRHS LFF MILSTLSFRCLANILSHSLFILLGLLINRSL SM*SVLLIY*Y*SYILLQYLLTVLEFFSFHI *VFSLLRILFFFKIFTFSIWMPLSQSYLLR HSVFTDVPYLISYILICVDLFLNTLFC SIG LFILGLTQHCLNSSSFHIVT*QSISSHLVQ* DCLCLHLCIFCALSCATKTKNKDVEIFIG LTM
3445	11496	A	4374	393	491	GLYLHRPIFPHDKLLVQLSCPFRH*THRG TES
3446	11497	A	4375	435	524	
3447	11498	A	4376	293	1228	NADNSLENFCRKSASCDLEQRRFIIRFIKL RRGSFSERKQQHSVTRKY SFIQNVVLEK DNKALNTRVIYNRFLFMMYKIKQNTDD GDCRLCSYHVLDRHCKGSTCIDPFFL MTNYWCNYHAHFIDEHTEAQRARNGK QGDECEVGGIESRRRSNGSGARYVHDSS PPTSGIHSNARPSVRLFLATLSKIAFLTV SLLYEMTVHIYGEPLRRQRITQLEGVG TLNGSVASVDPVFRNQQLHLATGSLMA SSSFCFVSLREIIGQSLIMKTL*ITHTHTH THSHTHTHTERERERERETEREREVKF
3448	11499	A	4377	953	1317	VLTLGVSPLYVSKGFWFFLLFS*TMFSH SPTWAILES WSSLARFSGMSGEPQMTPIG LQYLA*G*RPRNPTLVTFTEIS*VYFFILP LMSQ*MCLMHLFPLPQTFCQILQLYFFM AHIST
3449	11500	A	4378	9	359	PRKAELRIFEKVSVD AMAEDMEKLRPR LKKVHIRELVLAISIMPKTHKPM LTRVT WREMLR\PRDLK*EVEGGCRRCSSPR/V DPPGGRREFRGVVRGRGASAPPGGPG LSAML
3450	11501	A	4379	223	458	CLRRINPCSPRCRRPAWRRRRPGPRTRR RTDS*IRPKSGAASHPPGGAEGIPRGCS TRSRTRRRPEAPASRPCCLRI
3451	11502	A	438	3	217	RVMSHRKV SAPRRGSLGFLPRKRSSRH RGKVNSLPKEDLVHPLHLTCYLEDSPAF ADIVRNVYKTGGSAMN
3452	11503	A	4380	887	1172	FFPESELAQPEKRF*VPGKGRGLSPRRL PPRCRRPAWRRRRPGPRTRRTDS*IRPK SGAASHPPGGAEGIPRGCGTRSRTRRR PEAPASRPC
3453	11504	C	4381	22	255	MPSSSAQLLL PHEVSPVLSCQLCFLKTR VCSYLWATVILGLDYCNLIPCLVSYFLL SLSLPCISVVFRTQILLHY*
3454	11505	A	4382	23	361	LTTLVFAGTPGKKRRGGNQWR*SPHYSC SGGTGGRPRPAFSLPGAPGQSGQISQSD WRRGPCS*SSGWCNSC/HPGWPLVRGG MTS*WSYS*ATGP/GPGYKAIPGAS*RST SL
3455	11506	A	4383	2	310	PLLPAHPPPWSLPVTS*PRCGSPQRTSSW NRHSHRPA*SLPCLGFAGTPGKKRRGGN QWR*SPHYSCSGGTGGRPAPAFSLPGAP GQSGQISQSDWRRGPCS
3456	11507	A	4384	1021	1565	PHLSPAGTPLPAHPPPWSLPVTS*PRCG SPQRTSSWNRHSHRPA*SLPCLGFAGTPG KKRRGGNQWR*SPHYSCSGGTGGRPAP AFSLPGAPGQSGQISVPPCRVPPLLQSR AGPSPSSFSKWELYC SHHILPPLLYAHCQ ESLSNTQQRLEASLSSLNASEPTTAKCPH GTAACLGD
3457	11508	C	4385	361	612	
3458	11509	A	4386	448	683	VNMERKKDLTESSLPAVPTKVPGMRMK LS*TLKTSLATRCQTL SRLCSPPTNQRLS QQEGVGVGEKGELRIYLA MWIK

3459	11510	A	4387	1977	2160	VNMERKKDLTESSLPAVPTKVPGMRMK LS*TLKTSLATRCQTL SRLCSPPTNQRLS QQEGV
3460	11511	A	4388	145	370	GRVLLVLFCEFFETESRSVA*AGVQWRHR GSLQP*ASVSYELEAAVGYGGTTALQPG RQSRALYLKTKTKNFLNLS
3461	11512	A	4389	248	452	GWVFTMLARMVLQ*NHLNPGGGGCGSEL RSHHCTPAWATE*DSVSKKKEKEKKMR NETKTKWTCSPFIT
3462	11513	A	439	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGTG AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
3463	11514	A	4390	141	354	ARWADWLPLGIANCPRAHLAYLETWEL EAHWKRTIVNFCVCVCLCM*VCLVALR LFCSSGMHHSFNALQ
3464	11515	A	4391	354	592	IRCTQAFALTSVVSGPGTVAHASNPSTLG G*GGQIT*PREFKTSLGKMAKPCLYKNL GRHGDLCQARLLQLAEVEGFT
3465	11516	A	4392	63	353	ATEPVWPPCLWPQPLCAKDCRGVARP* CVRPPKASLVLPSSAGNASSIFMDYKCL SPCPFKQFLSSPPQSTEPSPACELGLINVN LSSRPSLPSR
3466	11517	A	4393	357	559	LILETGSVCVFQAGVK*LCTSVIIAHYSL DLLGSSNPPTS DSRVPGCGDVHLYSQVD AAANLVVVAA
3467	11518	A	4394	1048	1599	CRSKWGLASILWLKSFLLGHHLGGDGFK A*FKFHSKFTVLASSKCLLVGF*SHNYG *VRIHLFIY*IFIHF*KDFKSMFRLVLSSW PQAILPPWPPKVLGLQVLANCIPMFHF NWLKSSKWLRI
3468	11519	A	4395	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFFDSFGNLSSASAIMGN PKVKAHGKKVLTSLGDAIKHLDDLKGTG AQLSELHCDKLHVDPENFKLLGNVLT LAIHFGKEFTPEVQASWQKMTGVASA LSSRYH
3469	11520	A	4396	38	553	APSPDAMGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFFDSFGNL SSASAIMGNPKVKAHGKKVLTILGEMP* KHLADDLKGVTFQAQ*SELALVDKLHV S*RTFKLPGEMLLVTRFWQSHFRQKNFT PEGARLSWAERWVTWSWPVALVLRPL LKLNC
3470	11521	A	4397	74	432	TTGTLESLSNNACFGALLPHPPAPGE*R PWS*HFTRYLGPLNRCAWEGGRG*TGPG LPSLGKALVEGIPSESPGPTVSHPCSPRP DPDQSAASLHQVPPPTVHCSTLTPMG WPGPQ
3471	11522	A	4398	1	176	
3472	11523	A	4399	1	188	
3473	11524	A	44	275	403	FSHFWPPEFLRD*MWLGV/VAHACNPST LGGRGRWIT*GQES
3474	11525	A	440	37	527	APSPDAMGHFTEEDKATITSLWGKVN VEDAGGETLGRLLVVYPWTQRFFDSFGNL SSASAIMGNPKVKAHGKKVLTSLGDAIK HLG*SQGAPFAQA*SELHC\DKPAMWDP ENFKAPGEMLLVTRFGQSHFRQKNFTPE GCKASWAERWVT\GVASALVPSRYH
3475	11526	A	4400	1	118	
3476	11527	A	4401	1	227	
3477	11528	A	4402	1	157	
3478	11529	A	4403	1	133	
3479	11530	A	4404	1	169	

3480	11531	A	4405	1	143	
3481	11532	A	4406	1	89	
3482	11533	A	4407	1	166	
3483	11534	A	4408	1	190	
3484	11535	C	4409	21	218	
3485	11536	A	441	68	398	GPASNRALGFVVLLETRMVSASVSDPPTS TTGSTMCECISIHVGQAGVQMGNACWE LYCLEHDIQPSGTMPSHKALWSSDNSFN TFFRETQPGRHVVPGLSVDLEPAVIAQ
3486	11537	A	4410	1	206	
3487	11538	A	4411	2	185	
3488	11539	C	4412	247	393	
3489	11540	A	4413	1229	1784	RCRREMGSLSHVSVMVDSGFLWPCWRG PGSRTSNTVENRNPPPPRHPLGQLFILFQ SLSLHL.SLS/CLSLSTSFFQSLFLNLSVSLC QSLPSPSL/CFSIPLSNTHHTHTHTHTHT HTHTHTHTESGRC*SVLFFPPCPYLYHYR *G*GVGSAALSLPTPHYEMTVFKGNLLY LPAVSIVSRVNL
3490	11541	A	4414	76	297	EIRTLRSQSLSLWRRDVRWISGSLCKGH ASDHQLCQH*CTHTHTHTRTHHTHTHT HTHTHTHTHTHTHTPKMA
3491	11542	A	4415	48	327	EELEALRR\QRLAELQAKHGDPGDA\AQ QEAKHREAEMRNSILAQVLDQSARAR\V SEQGLIEILKKVSQQTEKTTTVKFNRKRV MDSDEDDDY
3492	11543	A	4416	786	905	VSEQGLIEILKK*CQLTEKTSTVKFNRRK VMDSDEDDDY
3493	11544	C	4417	58	237	MAAELEALRRPEAGRAAGPNTGDPGD AAPTGSQSTGQAEMRNSILAQVSGSSPA PGPG*
3494	11545	A	4418	115	432	LSK*CNKYTIHTHTHTHTHTHTLLNQPL K
3495	11546	A	4419	10	398	ENTVFIGLLKQQTRNIIPLKIFCLRLKIPP LTMPSPPPSPFRKSPDLVPAHTPKEGRLW PWPGPPGPGSKAAHARRPLSTCQD*PPQ REILPGPQPTSPTHCRMSREGRSGGTGAR ACQLPLLRPLAS
3496	11547	A	442	3	398	
3497	11548	A	4420	551	792	INFFFF*IIDRFSLCHPGWTAVAQSRLTAT LLPSRFKRFLCLSLPSSWEYRPLPPYPAN FCSKLLICLSTFYKDCGNSA
3498	11549	A	4421	56	193	
3499	11550	A	4422	1	3552	
3500	11551	A	4423	373	593	KKSLESINSRLQLVMKSGKYVLGYKQTL KMIRQKGAKLVILANNWPALR*SKRLNV LRLPRIHRERIYRSVNL
3501	11552	A	4424	118	206	VGGRPRSLRQGRWVARKEDKSRWESI NSRLAQLVMKSGKYCPWGTSETLKMIR Q\GKAKLVILANNCALRKSEIEYYAMLE K\TVGVHHYSGNNIELGTA\CGKYYRVCT L\AIDSGGL*PFI*KACPEQTW*KEDEKS RWESINS
3502	11553	A	4425	1134	1287	HGQINQMEVNLPMDRKV*THHTHTHTHT HTHTHTHSSTSCPYTLKRNKVK
3503	11554	A	4426	102	443	SPIIPLITTINILVYVLLAFLCIYHT*IYLY IIFFTNIVSYTYCFITCVFHLIYIVNIIVY SLKNFTDITCSLWKIRSYRYAKRKYNCS KSHLPEINAFTLWQVSFQTL
3504	11555	A	4427	263	615	LNVSEGINWVKLCHELQHGLNNSPFLIL LSHSEKINRASIMLKRYKLINNYILSAF NPPPGKIHHTHTHTHTHTHTHTESQKVK ST*EIT*IFPQQYTNLQREEHCYFLSHSE
3505	11556	A	4428	839	963	CVNGLVLGQAQLLRPVIPAL*EAEAGRL LEPRSSRSANM

3506	11557	A	4429	526	710	MGVWLNILTPTFGDQSAKLGTLQFKPAR HEFSQSGRTSFPIMPSRLPDVA*ENPNG SLDP
3507	11558	A	443	1	255	
3508	11559	A	4430	2	539	
3509	11560	A	4431	920	1110	TAVVFLNKLQLHF*KFLSEAFDNEYGIA YNSLSSEILERLQKIDAPPSASVEWCRKC FGAPLI
3510	11561	A	4432	38	571	GSHRRCSFITNYVHLYIFTLYIYIYIYIY IYIYQMHSPPAHSVT*LYGNTSLSATLE RPVTPAVVAVGFRVRSEKQLIVYEGARP RG
3511	11562	A	4433	145	675	NVAVASLSGAHTWKKQSQVCFVSAGLE TSMEAAIGDLVFPGLTQLEGIQGLVEP VQA*ASSWSSR*AAHSQGPGPSYHRSH LPKPTQRNPERSQMEAPSPKPLDQPVPE KRHRGASAMRRRKPISEFGFLAEMLVLA VREIELTNCPPHPEPNLATGKMTWLRSSS GFCEENRVT
3512	11563	A	4434	328	333	AFEFKRIDILTFKSSFAGSL*E*LHTHTHT HTHTHTNTCFLTVMKELSNHPGNK
3513	11564	A	4435	1461	1710	SGVLGRAALLKPPSRARSSGSSLSILR LSSPGPLSSPLCPTSQDRGIPFQTFHLN VALT*AAHEMDWREPCVKTRTGS
3514	11565	A	4439	3	451	
3515	11566	A	444	2	732	YLVSCFRDMAFNFGAPSGTSGTAAATA APGVGFGGFGTTSTTAGSAFSSAPTNTG TTGLFGGTQNKGFSGTGFSTTGTSTG LGTGLGTGLGFGGFNTQQQQQTAVGYS CMPSNKDEDGLVVLVFNKKETEIRSQQQ QLVESLHKVLGGNQLTVNVEGKTLP DDQTEVVIYVVERSNGTSRRVPATLY AHFEQANIKTQLQQLGVTLSTRTLS AQIKQLQNPPAGMFLESQSS
3516	11567	A	4440	26	529	NSTDSETHPWLLSPADK\TNVKA\AWG\ KVGAHAGEYGAEALERMFLSPFTTK\TY FPHFDLSHGFAQVK\GHGK\KVA\DAL KAVAHVDDMPKRRCP*SDLHAHKLAR VGPGSTFKLL\SHLPCLGEPWAAHLRPS FNPWRLQRLPWGQSFLGFLKHRCLNLP NTR
3517	11568	A	4441	294	600	ISCFLCSETLSNFALFLKESNGPVKVWGS IK\AMTENLHGFBVHEFGDNTAGRVLCF FLECIWEL*FII*LFLLLINR\CTSAGPHFN PLSRKHGGPKDEER
3518	11569	A	4442	517	758	
3519	11570	A	4443	80	725	SPAASGGFPLQSLPRTLGRGLSDFGDRS PVCVLKGRPKCRGINFQKCRESNGP\ VKVWGS\IKGLT*KALHGFHVHEFG\D NTARLYQVQGFHFNPLSQKTTVGPK\DE ESHC*DLGQCDCLTKNGVADVSNEDFV NLTLQGD\HCINIGRTLVPWPKPDDLGP KVGNE\ESSKT\GNAGKSVWPCGV\IGIA RINIPLGCSLRPPKLCVSC
3520	11571	A	4444	415	635	
3521	11572	A	4445	2	478	MAGKQAVSASGKWLGMGIRKWWYNAAE FNKLGLMRDDTIYEDEDVKEAIRRLPEN LYNDRMFRIKRALDLNLKHQILPKEQWT KYE/EGLCCSSALCFLLR*KDQPIECPSR SQEELL*SKLSPL*TAFET*AKENFYLEPY LK\EVIRERKEREWEAKK
3522	11573	A	4446	323	400	
3523	11574	A	4447	2	396	RPPTTTKFAAARQMAGKQAV*STQAKG LNG/IFKKWYY\NAARIQNLGLMRDDT IYEDEDVKRSP*EDFPENLYNDRMFRH* EGHWTLNLK\HQLPKEQWTNF\EEKNFY LEPYLKE/VLFRERKEREWEAKK

3524	11575	A	4448	3	314	
3525	11576	A	4449	5	340	GSGETSAKAFRSIWGPLPPVHRHSGPRSSV QR/DGPGLGTGEPRVYIRNKVANTGVPG APGPSIGGVTAPATDYCHRIAPILAARRR RRRRRRRRRRRRGGGGGVAGGGGGG G
3526	11577	A	445	2	681	AREGSALRVAGVTYLVSCFRDMAFNFG APSGTCGTAATAAPA/GNTFLLFGGGF GGFGTTSTTAGSAFSFSAPTNTGTTGLFG GTQNKGFSGTGTGTTTGTSTGLGTGLG TGLGFGGNTQQQQQTTLGGLFSQPT QAPTQSNQLINTASALSAPTLLGDERDAI LAKWNQLQAFWGTGKGYFNNNIPPVEF TQENPFCRFKAVGYSCMPSNKDEDGLV VLVFK
3527	11578	A	4450	1	117	
3528	11579	A	4451	1	1973	DGGARARGRAAARRRRRRRRRRRRRRR RRRRRRRRRRRRRRRLGLERPOPTSRGR APGASRAEEKMEELVVEVRGSNGAFYK AFVKDVHEDSITVAFENNWPDRQIPFH DVRFPFPGYNKDINESDEVEVYSRANE KEPCCWWLAKVRMIKGEFYVIEYAACD ATYNEIVTIERLSVNPKNPATKDTFHKI KLDVPEDLRQMCAGEAAHKDFKKAVG AFSVTYDPENYQLVILSINEVTSKRAHM LIDMHFRSLRKLKSLIMRNEEASKQLESS RQLASRFHEQFIVREDLMGLAIGHGANI QQARKVPGVTAIDLDEDTCTFHIYGEDQ DAVKKARSFLEFAEDVIQVPRNLVVIGK NGKLIQEIVDKSGVVRVRIEAEENEKNVP QEEIIMPNSLPSNNSRVGPNAPPEKKHL DIKENSTHFSQPNSTKVQGRMVFPFVVG TKDSIANATVLLDYHLNLYLKEVDQLRLE RLQIDEQLRQIGASSRPPPNRTDKEKSYV TDDGQGMGRGSRPYRNRGHGRRGPGYT SGTNSEASNASETESDHRDELSDWSLAP TEEEERESFLRRGDGRRRRGGGGKG\QGGGR GRGGGFKGNDHSDRTDNRPRNPREAKG RTTDGSLQNTSSEGSRLRTGKDRNQKKE KPDSVDGQQPLVNGVP
3529	11580	A	4452	1	2115	
3530	11581	A	4453	2	424	
3531	11582	A	4454	1	456	RPRRPQREPTMVLSPADKTNVKAAGWK VGAHAGEYGAEALERCFLSHHQDLLS\ HFDLSHGSSQVKGHGKKVADALTNVAVG HVDDMPNALSALSDLHAHKLKRVDPVNF KLLSHCLLVTLAAHLPAEFTPAVHAFLD KFLASVSTVLTSKYR
3532	11583	A	4455	25	640	EFHRLRENPPWCLSPA\DKTKAQRPPRLK LGAHA\GEYGGEPLRMFLSFPTTKDLLP ALRP*ATVSAQG*RAHGK\KVA\DALTN AVA\HVD\DMPTQALSAPERTCNGAQAF GWDPVQLSSS*SHLPCLGEPWAAHLPRP SSTPGGCKASLGTKFPGLFVEAPLLEPSK LPLKLGSLRVGHCFAPLGLPPSPSPSCT RTPVVFE
3533	11584	A	4456	906	1046	PDHINWSQ*TTTGAQRQT*KRTVKEV*S AHNEAMCFGTCASDCLYR
3534	11585	A	4457	1	383	MVLMPVVSAIPEAEAKSSLIENDVCLSA KENHKSRAITRTAERFTE/SPHD/YPRK TARTGLRHAQQASL\PNWSTPLAARIAP VPPAANPQGVLLKSAGPHLLLARTTTC NR*VPIASPQTTHRME
3535	11586	A	4458	1	1509	
3536	11587	A	4459	579	919	PGSM/IPLSVSHSTGDDGRSLPKRRSTAPS MTSVYCFNCERCLVSCSLLLSSLGPPCL AVLLAPFFAPFF*VFLLCVVVAGLPALL LLVSSLLFLVLLSFCASACFGFLSV

3537	11588	A	446	1	459	HRRPLYPAGIARMTRGDRTTGCTRPKG SRTGGAVGAAMQEIIIGSVDDHIKFDLEIAV EQQLGAQPLPFPFGMD/KTPDSQAPISTVW GLLLPSLGLRSSLPRIFGPLRLFKESGAAY CEFFLKAACGKGGMCPRRHISGEKTVVC KHCLRGLCMN
3538	11589	A	4460	1477	1691	YCNVSFGANLERA*TSFSALFIDLQPPGY RTTTSKHKVSSSLIKGHVLLDHSFHDNLN QLWISTNAFRFGN
3539	11590	A	4461	1076	1354	QOKCAVNLHSFLPITKLCRLFASCRAAR CCSHLTSQPVTA*LAGKVNPLPLGNLWE CDTKAGSQAMRTHLSITWRAVMQLPVI NTTYQRGKR
3540	11591	A	4462	880	1242	
3541	11592	A	4463	832	1386	
3542	11593	A	4464	46	492	HPVTLGDNTYRTHIKQLIKGEVFLHFTP DAVDVFRIT/MTLPL*RLQLSSQRADDQ RTLRCVVRGRDAVHAAVWQFVCIRLDVE VTEAVIFQFPQLSDSETVSQRCVDVGIL FCRQYTFIFRRIFYFAQMSNTLRLFDYYA EEIIDHRQ
3543	11594	A	4465	7259	7441	IASPGWS*RQECSSRSCAQCCQSTTTTCR HAKQRLALAHKPLAKLAGNGITPRLRQ ICR
3544	11595	A	4466	538	1056	
3545	11596	A	4467	1	1134	
3546	11597	A	4468	745	1263	
3547	11598	A	4469	3506	3826	EVWRPARRSRDVSCSRSHAYVVPVGT DWLWPS*RPSTTGVC*PVTWRWLEGQ WTPHLGRVLQEDSDSPTFPSALGIQETRP EPLKSPREVPTSGRTGVFHYPPVA
3548	11599	A	447	1	811	DGTMEDSEAVQMATALIEQRLAQEEEN EKLRGDARQKLPMDLLVLEDEKHHGAQ SAALQKVKQGERVRKTSLLDLREIHDVG GIONLIELRKKRKQKKRDALAASHEPPP EPEEITGPVDEETFLKAAVEGKMKVIEKF LADGGSADTCDQFRRTALHRASLEGHM EILEKLLDNGATYDFQDRLDCTAMHWA CRGGHLEVVKLLQSHGADTNVRDKLLS TPLHGAVRTGQVEIGEHLFLSLGLENNAR NREGDTALHDAGRNVNRYPIQ
3549	11600	A	4470	1	751	
3550	11601	A	4471	482	1200	VFSGPFGVGFFPFGSLCPCELSATVLEV APPLLPGNRMSSRITMLSESCQRMVIVG YGRCFADRQNLVCLRSMPNVFTGSCA RMRCCLSENLPVPPSKRAHTGRVAVKE SNQRWCSDGFEFCCDNGERLRVTFALD CCDREALHWAVTTGGFNSETVQDVMLG AVERRFGNDLPSSPVEWREGVFNIDE EFGNESAQTGMLHHQLDPSVEGELHQN TGSTACCRADSTHISHWRFM
3551	11602	A	4472	1271	1681	TVITTGIGRPFSMESVFALNALQNSMMF TPC*PRAGPTGGLGCTSFSEPILDGWPP QSSQLMIRMCFVYTMLSESCQGMVIVG YGRCFADRQNLVCLRSMPNVFTGSCA RMRCCLSENLLYHRNNGHIAEWP
3552	11603	A	4473	739	1257	
3553	11604	A	4474	1	2661	
3554	11605	A	4475	1	2370	
3555	11606	A	4476	421	972	
3556	11607	A	4477	766	1073	HRQLVIVFQQPLVSGFHEAELSDDAKW VLHPGPDAGFHVFDVGRFVLA*CCFK VLTLPGRSAISQSTPPRAPRAVAPLGSR HRLRQIAPLHAADYPAD

3557	11608	A	4478	1662	2045	PTALAAFSRRIVRITFLPVGDGPFHQSGS LRLS/NPDALQIQPACRIFSSALITSVFACS VHEGE*LPVDPGIIRALLHR*R*KAESAC AVPCI*AWTDREYGCNRRKSGVILRRT DDWMDGRRSRHT
3558	11609	A	4479	1	1803	
3559	11610	A	448	100	1532	EARRNWGAMGKARRSPPGHHRHCEGCF NRHCHIPVEPNTSCLVISCHLLCGATFHM CKEAEHQLLCPLEQVPCLNSEYGCPLSM YRHKLAHLQACPASVCCSMEWNRW PNVDSETTLHENIMKETPSECLDTALAL QDQKVLFRSLKMVELFPETREATEEEPT MNGETSVEEMGGAVGGVDIGLVPHGLS ATNGEMAELSQEEREVLAKTKEGMDLV KFGQWENIFSKEHAASALTNSSASCESK NKNDSEKEQISSGHNMVEGEGAPKKKEP QENQKQDVRTAMETTGLAPWQDGV ERLKTAVDAKDYNMYLVHNGRMLIHF GQMPACTPKERDFVYGKLEAQEVKTV YTFKVPVSYCGKRARLGAMLSCKPSE HKAVDTSDLGITVEDLPKSDLIKTTLQCA LERELKGHVISESRSIDGLFMDFATQTYN FEPEQISSGTELADLTAATPGGLHVELHS ECVTKRHN
3560	11611	A	4484	875	1075	
3561	11612	A	4485	2097	2179	
3562	11613	A	4486	4274	5255	HTLFGDKLCTVATLRETYGEMADCCAK QEPERNECFLQHKDDNPRLVRPEVD VMCTAFHDNGETFLKK*VIRCL*FKIKK HGVTP*ANTL*KLP*QKYFQH*DLEVLL* *FFKEVVFDTTKFYTAKNMIKDILKFIET GYNLSQKFIDKFFNVFRYVYVMVVIID FVLVSNILPKFNHLC THTHHTLTLFST YLKNDRDKTIMCKLSLIG*LAESLEFGGS GENVDYNYFCNIVCYRK/ADCFSFLKFR YLYEIARRHPYFYAPELLFFAKRYKAAF TECCQAADKAACLLPKVLCTRIEKKSL SNLILSILWDLGTLV
3563	11614	C	4487	102	230	MFLSCRSVXXXXXXXXXXXXXSPLF LSPLLFLFHTYMRA*
3564	11615	A	4488	2	567	
3565	11616	A	4489	125	522	
3566	11617	A	449	124	602	WATTPFQPKSNSKMAELFMECEEELEP WQKKVKEVEDDDDEPIFVGEISSSKPAI SNILNRVNPSSYSRGLKNGALSRGITAAF KPTSQHYTNPTSNPVPASPIKFHPESRSS DSSVIVQPFSPVSVSKTIRPAQGSIGCCL SISTVPSYNSGLS
3567	11618	A	4490	195	473	
3568	11619	A	4491	1	966	
3569	11620	A	4492	1	960	
3570	11621	A	4493	1743	1935	

3571	11622	A	4494	1	1540	NSGGSGGGTSGSGSSSGQGKMGQSQSG GHGPGGGKKDDEDKKKKYEPVPTRVG KKKKKTKGPDASKLPLVTPHTQCRLK LLKLERIKDYLLMEEEFIRNQEQMKPLEE KQEEERSKVDDLGRGTPMSVGTLEEIIDD NHAIVSTSVGSEHYVSILSFVDKDLLEPG CSVLLNHKVHAVIGVLMDDTDPLVTVM KVEKAPQETYADIGGLDNQIEIKESVEL PLTHPEYYEEMGKPPKGVILLVPPGVGTG KTFLPKAVANQT\SATFLRVVGSELIQKY LGDGPKT/LSRELFR\VSEELAPSLRFIDRI LPPLGHKRYD\SNS\GVRRELQRTMLELE LLNPVGMGFDS*GRL*KLSWATNRIETL\ DPALIRPRPAFDSKIE\FPLHDEKTKKRIF QIHTRSMTLADDVPLDD\LIHGLKIDLS\ GA*HSRAICTEAGL\MGL*GERRMKVNTN EDFKKSKENVLYKKQEGTPEGVVSLMN HGLSSGKWLGD\SIPERDEVGGSCPEESL FPLIFY
3572	11623	A	4495	125	320	
3573	11624	A	4496	1376	1509	
3574	11625	A	4497	2120	2313	
3575	11626	A	4498	2	266	
3576	11627	A	4499	918	1475	
3577	11628	A	45	2	343	NLCQVFIPFLFHSLLYVFKILKGLFQASF LGHLLLLPLSGTPGRPGGGGAGGSGRGD PPAAGASRTIPWPLLLQQLSSSSSHFKA/P SKLSSHG*PRALGPPGPYHRPPSPGTT
3578	11629	A	450	1	368	ICRFNPYVFLAAKADQLQVRTTQLT/CKS CWLYHCINHSTLQTCNISTL/M/ILGHIPG LWILINLSEPWDATPVWHFVKLLTTLT HHACRASGNIFAIVSLVTLTSAVMSSVA LHSSVQMAQ
3579	11630	A	4500	1	822	
3580	11631	A	4501	158	668	
3581	11632	B	4502	151	336	ANSDSMVGYVLGPFFLITLVGVVVAVG GPAAHLLPMYSYDPAEELHEAEQELLS DMGDPKV*
3582	11633	A	4503	748	949	
3583	11634	A	4504	1139	1241	
3584	11635	A	4507	41	488	
3585	11636	C	4508	187	342	MICKNKNKVILLXXXXXXXXXXXXXGG AXXXXXTTPRRRGKKQFFLPPKQ*
3586	11637	A	4509	1304	1434	
3587	11638	A	451	126	373	GRGTSKILMALQRTHSLLLLLLTLLGLG LAYPSYGHDLVYHRVVADNGHLEETLV MDRCLSVMILLRIISRDDCERLIGLA
3588	11639	A	4510	1	1383	
3589	11640	A	4511	1	674	
3590	11641	A	4512	19	249	
3591	11642	A	4513	1000	1174	
3592	11643	B	4514	60	378	NAVLEADFAKRGYKLPKVRKTGTIAG VVYKDGIVLGADTRATEGMVVADKNCS KIHFI SPNIYCCGAGTAADTDMTTLQISS LAAMAVFEDKFRPDMEEEEAKNLX*
3593	11644	A	4515	1	437	DPRATEGMVVADKTCQKSTGRPELV AIRMLKQMLFRYQGYGAALVLGGVDV TGP/HLYSIYPHGSTDIAAGIFNDLGS IDLCVISKNKLDLFRPYTVPNKKGTRLGR YRCEKGTTAVLTEKITPLEIEVLEETVQT MDTS
3594	11645	A	4516	1	1059	
3595	11646	A	4517	1115	1307	

3596	11647	A	4518	3	866	FLGKMAAVSVYAPPVGGFSFDNCRRNA VLEADFAKRGYKLP RPRTGTGTIAGVV YKDGIVLGADTRATEGMVVADKNCSKI HFISPNIYCCGAGTAADTAMTITQLISSN LKLHSLSTGR/LPRV/VTA/NRMLKQMLF RYQGYIGAALV/LGGVDVTGPHLY/SIYP/ HGSTEKVP/YVTHGFLAPLA/AMALFER* V*APDMEEEEAKNLVSEDSPPQFPSPSW RIFN/DLGSRKPNIDPLPSSARNKLGFSPP HTQLPNKKGTRLGW/P/RYRCEKGTTAV LTEKIPLLWST
3597	11648	A	4519	4	181	
3598	11649	B	452	1	1812	MPSPSPLFFVATIHDCELETTETGSPD LQDVPLEKADATVFTDGSSFLEQGVKA GAAVTTETDVLWAHALPANTSQAQKAE IALTQALRWGKDINVDTSRYAFATVHV HGAICQERRLLTSAEKAIAKNKNPPSSKPN RSSSSLGNNLRPDGSMYMHRSKGVPAV SVNVNLTPESLNLESSCVTKKLSPEKEI YEMESLQWENMGKRINHHLQYNGLD NMECKGNLEGQEASQEGLYMCVKITCE EKATESHSTSSTFHRIIPTKEKLYKSPNPS QDTGYSQHHTRTTFSKRQPKNCERFPVE GRPLTLPAQTSXGYSGSKPDVITLLEQK EPCVVARVDVTRRQCPAAPMVDSLIAV GVMARGNAITLPVCGRDVKFTLEVLRG DSVEKTSRVWSGNERDQELLTEDALDD LIPSFLTGGQTPAFGRRVSGVIEADGSR RRKAAALTESDYRVLVGELDDEQMAAL SRLGNDYRPTSAYERGQRYASRLQNEFA GNISALADADNISRKNITRCINTAKLPKS VVALFSHPGDYLPVPQAKGNNVVITSY MTNRGFFEDKKATFAPSFLMNIKGKNTS VVKNSILEQGQLTVN*
3599	11650	A	453	305	1088	NHWPMLHVTFRDVAIDF/SQKEWECLDT TQRKLSRDVMLENNYNNLGLTG/SDILGS KPVVITLLEQGKEPCVVARVDVTRGQCPG LLSRHKTKKLSSEKDIHEISLSKESIIEKSK TLRLKGSIFRNEWQNKSEFEGQQGLKER SISQKKISLKKMSADRKRPSFTLNQRIHN SEKSCDSHLVQHGKIDSDVKHDCKECS TFNNVYQLTLHQKIHTGEKSCKCEKCGK VFSHSYQLTLHQRFTHTGEKPYECQECGK TFTLYP
3600	11651	A	4538	1511	1687	
3601	11652	A	4539	425	619	
3602	11653	A	454	1	2088	
3603	11654	A	4540	122	621	
3604	11655	A	4541	2315	2790	AATTPALRPLRRSSFLMATTITKASTGT WSSPSLPTPPPTSTLRKAPTTLIQKWRP GAQQPSCPKPRS*PSSSTPRTGPIGTSTS EPMTTQWP*STPSMR*LPPALTHPRSCVP SRTAAWVLGWYATHIERWLSAYSQRPD SGLGWQTCFAQNLPK
3605	11656	A	4542	645	766	
3606	11657	A	4543	294	502	
3607	11658	A	4544	969	1158	
3608	11659	A	4545	147	402	GRGIQLFHEIQLQLSKTLCEPAVPVQRLR GRTAARWPGSRESPLRPVFDVEYCGVLI FIILFI*WRHFHSLCWGDDIILACLL
3609	11660	A	4546	240	433	
3610	11661	A	4547	3	310	GGQPPHPPAARPGGRWGCQPPARQPLRP GGSVSTGTGFPGRWQPETSWVSCRHC GPHLSAVWGLPR/LSPLPAGPNPRQPQLS EFPRPKEFLTPTQTQTKPN
3611	11662	A	4548	3	195	WPPGPLQPRGTEHRPPTDTPPRAARSTR SHSPSEPRTRTPWQQR*LPRPSKPSHGPD VIEAA

3612	11663	A	4549	1	1439	
3613	11664	A	455	140	511	PTQSTRRIATVSIAAAVAPLTLFLYRGDG GLSSRRRADAAGG/APFSLCGEVAVKPPI NPFTELMENAVNDGSHSEELFCHLKTIS QKED\LTRCTSESHLSWYSHQYQGKSKF PILGFPVLSII
3614	11665	A	4550	292	573	
3615	11666	A	4551	376	456	GEEPTSVF*RNQWNL RPHKHFGNASPW
3616	11667	A	4552	1663	1984	
3617	11668	A	4553	1735	1868	
3618	11669	A	4554	138	279	
3619	11670	A	4555	72	192	
3620	11671	A	4556	571	690	CQQGFSLQAYGPAQHAISMRKFKAKY PDYEV TWANDGY
3621	11672	A	4557	130	943	
3622	11673	A	4558	45	405	GIPGRRNMAVADLDLIPDVADIDS DGVFK YVLIPSP LGIPAGIRPAESKEIVRGYKWA \GHHADIYDKSVGATCRKQGLRTVSILG GGRIS/HTKSPGQERFTVY\GYSMGLWSC PRTPIST
3623	11674	A	4559	613	866	
3624	11675	A	456	1	1014	
3625	11676	A	4560	69	430	
3626	11677	A	4561	144	294	
3627	11678	A	4562	13	759	
3628	11679	A	4563	177	328	INAHLKFKVYFLSQAPLKCTWKTSAAARE NHV*LTFLMFYGT LGTGVCFL
3629	11680	A	4564	218	343	
3630	11681	A	4565	708	916	
3631	11682	A	4566	829	1002	
3632	11683	A	4567	51	209	
3633	11684	A	4568	8	218	
3634	11685	A	4569	3	357	
3635	11686	A	457	577	2195	IMGCVQCKDKEATKLTEERDGS LNQSSG YRYGTDPTPQHYP SFGVTSIPNYYNFHA AGGQGLTVFGGVNSSHTGT LRTRGGT GVTLFVALYDYEARTEDDLSFHKGEKFQ ILNSSEG DWWEARSLTTGETGYPSNYV APVDSIQAEWYFGKLGRKDAERQLLSF GNPRGTFLIRESETTKGAYSLIRDWDD MKGDHVKHYKIRKLDNGGYYITTRAQF ETLQQLVQHYSERAAAGLCCRLVVPCHK GMPRLTDL SVKTKDVWEIPRESLQLIKR LGNGQFGEVWNGTWN\GNTKVAIKTLK PGTMSPESFLEEAQIMKKLKHDKLVQLY AVVSEPIYIVTEYMNKGSLLDFLKDGE GRALKLPNLVDMAAQVAAGMAYIERM NYIHRDLRSANILVGNGLICKIADFGLAR LIEDNEYTARQGA KFPKWTA PERALYG RFTIKSDVWSFGILLTEL VTKGRVPYPG MNNREVLEQVERGYRMPCQDCPISLHE LMIHCWKDPEERPTFEYLQSFLEDYFT ATEPQYQPGENL
3636	11687	A	4570	2	217	ECGDVCDTGDRA SVDEEGYIWLGRSH HTINAS/GVV KALIVLTPQFLSHDKDQLI KELQQHVKS VTA PCIGC
3637	11688	A	4571	1	846	
3638	11689	A	4572	361	916	
3639	11690	A	4573	128	416	RQVLLFWGRGKYHNPFSCLYPFSAFLG EGQVPLNPFSFTLSGKSRFSRGQEP/LNPL FPHPDLLSVCNPLFPHPDPPAFLEGKN PRTPRTRGST
3640	11691	A	4574	127	135	NKIVLKCWGGENFWGVVWRENGRCFS GLLQAGLGAAWEPRVG/IVRRNICCIE*L VMAWIRFCMN*KTK

3641	11692	A	4575	35	386	QLKTDTAQSPRSPLDHHGHRASGNHSHG SIHPDGLK*LKNHHRSEKPCPTLTDIPP QKKCKWPVLALSADITL*KSFSWLILAQ KAPPLSTL*PPLLPAEQMSFDCNFPLPT QIL
3642	11693	A	4576	148	336	IRTPKIGLFNSPGSHSQSPWNSGPRLS/
						WTPSQIFSA*QLKTDAAAGSPRKPPRPSRT PSFR
3643	11694	A	4577	4418	5130	DTISYQLEWRSLSQETTDQAPMSSL*NF LRSNPWLS*RLGA*/WNADEQGVPLIQE MLESWASICKVPKYPNAAEAVRPEEQTPH LHPGEINSHVAHTKLWWSLHTDTHEI WCRSDRGTSLSGRSIPCPALCSVRKIHL RPQVLRPTSPRNISPISNPHTRT/SQTPEPQ RPGVPPEPPSPGACYKCQKSDHQAKECL QPRIPPKPCPICAGPHWKLDCAHLAATL RAPGTLAQGSL
3644	11695	A	4578	522	923	PSAAGLLEFAGGPLQTLFAWVSAEAAE QRVLLNSQ/WLLPDRSSGSFVSGSIWPCE VSVCPSSRCWRPRRKPLEAHLVQPQPT LLAPVLVLLAVCYGWSRPLAHTLFAAS RLAHHGVDQRNNLVDKAQILN
3645	11696	A	4579	1	569	MGKKQNRKTGNSKKQSTSPPKERSSSP ATEKSWMENDFDELREEGFRRSNYSEL EDIQTKGKEVENFERNLEECITRITNTEK CLKELMELKTKARELCEECRLS/LMRS TGRLLIKKTPFSSG*SRI*FNN*ASNSLY* NINSNKSPL*PLKGPILSKPSASNIPCSLQ WVQAFQKSESLPAPR
3646	11697	A	458	561	966	GALCAASVPRCVWSSAGVVALFEEHCA PLVWVYTYECCHYMCSALLSLSCPCPAP SERAAGLCCRLVVPCHK\GMPRLTDLSV KTKDVWEIPRESLQLIKRLGNGQFGEVW MGMLRLNYSLSIFPVWKIPNTKDGR
3647	11698	A	4580	23	660	FIDSMPPSPRYQ*LSSQNWKLL*SSYGT KEEPASPSQS*AKRTKLEASHYLTSNYTT RLQ*LFQKHTMLSPRENLTQPACTQVK* TAMLLTQ/RPVWWSLHTDAHEIWCCDS DRGTSLSGRSIPPPALCSVRKIHLRPQVL RPTSPMNISPLNQLSSLRLTLPDRLRSPL DHHGRRASARLHPGEINSHVAHTKPVW CSLHTDTHENDKNKQ
3648	11699	A	4581	1	764	MIQEHADKQVQRLQGVLLGSIPTAASRA RLHPGEINNHVAHTEPVWWSLHMDAYE IWCRGSDRRTSLGRSIPPLPALCSLRRHL RPQVLRSTSPRNISPISNPGHLSDYTPTFQ GCQTMQGRLPWSFTLSGKSRSFSGEGATQ RQYPIPQALKGLMPAITRL/STAWPFKA YKLSLPFPHTCPKTRQALQVSSGSAPYQ PNCFAYPFHGAKPIYSSILNTCLYNPLFCS RSQTSFLYYSFAPFIPASLRIHLD
3649	11700	A	4582	1	400	MWNAVTLWQQRESCIEESEIGTLETKE THFIRGPKTLAPVTDWEG/SPSLGV*SMQ GRLSDYTPTFQGFQTTQGRLPWSFTLSS KSCFS/AGRGKLLLARPS*VPILPQPLLLH PTILLSPPLTPGQAYSFIP
3650	11701	B	4583	1	933	MEEKEERKRRRKRRRREEGRDGERKR MEKQKENQDPKDPPTSGPQTDQPKKH LTNFKSETKETRFIRGPKTPAPVTDWEGS LPLVFNHSRDTSIIHPGFRGVRPRRDAC LGPSPLAASPTFLGKGPAAPRQTELGPNS SSASAPPPYNPFIASPPHTWSGLQFPMT SPPPPAQQFTLKKVAGAKGIVKDLINLTF KVYNNRKKLQFLASTVRQTPATSPAHK NFQTPELQQPGVPEPPPRGACYKFQKS GHRAKECLQPRIPPKPHPICVGPHWKS CPTHLAATPRAPGTLAQGSLTPSQIFLA*
3651	11702	A	4584	1	582	

3652	11703	A	4585	1	622	MAKSFSGSGKSVCKSPKGNNTWETRM IGDGGQLQEGSLTMKFEDGKYLFGFNIEG DFCEDSNFQTGESVSDVYFENVLSALQRE STGSGIAQERNDEGLSEGRAVLCEIECLS ASLASTSQSSIEQLPTSSPTTKKQNMTP DIAEYPQWAIWTSKTTTIVLRPS*VLILP QPPLLHPHFLSPPLTPAPAYSFIPPSQTPS FG
3653	11704	B	4586	102	1151	MEEHFMLMGSKNQYRENGHTAQEKLL YAFHNISLKQSSLSLSQNFNNENNDGS KDDDDGGDDDDDCQASEAKPNSACLHP GEINSHVAHTKPVWWSLHTDTHENDNG DVGGDDNVDDVDDDDGGDDGKDDGDD DDGDTVMMVMMIMMMVLMVMVIVVV VVVVVVVASRKAFLLFLINGEESLESLT GFANIPNHHLTVQHIYTPTLPSGETKETR FICGPKTPALVTDWEGSLPLVFNPCRDS LIIQPRFKAASPAILGEGQVPLNPFSTLS GKSRFSGEGARAYYKCRKSDHQAKECP QPRIPPKLCPICAGPHWKSDCSTHLAAAP RTPGTLAQGS LTDSFLA*
3654	11705	A	4587	258	479	TAAARRSSRTSSHRSLHVPEIWLPGQG MPAARDSS*AASHLCRTPPKIGLFNLPGS HSQSPWKSGPRLSD*LLPRSSRLSS*RAL GQISRGSGSGCQVS
3655	11706	C	4588	259	531	MSPAHKNFQTEPQRPPIPPEPPPGACY KCQKSGHQAKECLQPRIPPKPRPICAGPH WKLDCPHTLASTPRAPGTLAQGS LTASQ IFLA*
3656	11707	A	4589	1	446	MNLNRNALVLTLSFSDSARLHPGEINSHV AHTKPVWWSLHMDTHEIWCRRSDRGTS LGRSIPCTPVL/VLSRFKKIKACYHSPATS WPFKTYKLSLQLPHFTCPKTRQALQVSS GAVPYQPNCFAYPCCGAQVPSFVLNTF LHNSLCRA
3657	11708	A	459	46	949	ARRPRPWLSSARTPRRPFWRPPSCSPM LTTSSSETLMMKNIDPSGLETQPF/YEVLO SNIQHVLVYENPALQEKALACIPVQELK RKSQEKLSRARKLDKGINISDEDFLLEL LHWFKEEFFHWVNNVLCCKGGQTRSR DRSLLPSDELKWGAKEVEDHYCDACQ FSNRFPRYNNPEKLETRCGPWCE
3658	11709	C	4590	228	260	MFLGLVGLRT*
3659	11710	A	4591	268	390	
3660	11711	A	4592	1	499	MAPTNCKGSRKCGRPHEQMPPHYPLLL TLFSDSARLHPGEINSRVPHTKPVWWSL HTDAYEIIWYHDSWDGDLPEWETPCPPA LCSMRKIHRLPQVLRPTSPRNISPISNPEK *NGLKV*F*KHTSPSSATNLKRPQGYFYH FPFSEFRPVGLMLQVTSFAQKFTLL
3661	11712	A	4593	1	355	MEVYTQKAYWRVPLGSTVGDQGGHGR FIHPFAIKIEQGSTNRCPSGSPATKYVLLC LHGEKVDLLPADQQSIFSPGRSTQGHLSI TGVLMNRHSTYMDKEKVKMVTALWTD EELSKLTWTRMKFDAMTQLGDLPEIN PLSSCSLLREKDPPTTSGPQTDQPKHELT NFKSTINHAPLTIPLKPNHSYPAECQYPV PQHALKGLKSHITRLQHGLLKPINCPYN SPILPVLKPKDKAYRLQLDLRLNQIVLSIH PVLKPNLTLSSIPPSTTHYSVLDLKHAF TIPLHLSSQPLFAFTWTDPDTHQAQQITW AVLPQGFTDSPHYFNQAQISSSSVYLGII LMKTHVLSLLIVSG*ESIWFVQHGVDRO NNLVDKAQILK
3662	11713	A	4594	260	487	AQACMYTSRWPEATEEPQKK*KWLVP ALTDDITL*HSFGTVSLRSSPLSTL*PPPLP AREQPPLTVIFHHLPKS

3663	11714	A	4595	1	508	MNMNIKKIVKQATVLTFTTALLAGGAT QAFAKENNQKAYKETYGVSHTRHDM QIPKQQQNEKYQVPQFDQSTIKNIESAKG LDVWDSWPLQADGTVAEYNGYHVVF ALAGSPKDADDTSIYMFYQKTA/PSPGQ A/TVPILPQPPLLHPILLSPPLLTSPAYSF VP
3664	11715	A	4596	1	1246	MGKGRRSLWLLPADGGSSGNGNELQGT SPHDYFSIAIKSTHIGLEYPTSRQSNRVSP QSKRIRQPLGLPSGSITERGPPNNRQKGY TRQQFCHSTPNKGDRIYVNLTCCLLYCC VRFPLAGTGPHILYLSRLASNLELFKRD GRGEQRKEEVTCFHKLLAEKENNPFSFI YPNPIKRPHPYLPSLTLFSDSAHLHPGEIN SFMAHTKPVWWSLHTDAHEIWCRRSDR GTSILGRSILRPPALCSMRKIHLRPQVRLI SPRNISPISNPHALKGLKPVITRLLQHGLL KPINSYPNSPILPVLKPKPYKLVQDLCLI NQIVLPIHPMMPNPYTLLSSIPP/CHNPLF CSGSQTCFLYYSFVPIASLRFHLD*P*H SS/WFSKLPGLYCRKASQTAPITSVKPKF HPHLLPISA
3665	11716	A	4597	182	750	KWPYCPSSAGQQTQLCSSSTNSNNCLPY RGTSILGRSIPCPPALCSMRK/MPPTTSGP QTDQPKKHLTISNPVAEAKGIVKVNAPF SLSD/PPKIS*RLGSFSSNHPYLGQRQYPI QQALKGLKPVITCLLQHVLKPVNSPYN SPILPVQKLDMPYRLVQDLCLINQIVLPI HAMVNPNETFIPLTVLNP
3666	11717	A	4598	3	504	KRPHPYLPLLTLFSDSAHLHPGEINNHVA HTRPVWWSLHTDVHEIWCRRSDQGTFF WEINPPSSCSLLREKDPPTTSGPQTDQTK KHLTNFKSGKRPLFTPSPTSLTIPQPLSPF NLGATLQSLPSLNFNSFHFLVFTKETCFI HEPKTPAPVTDWEGSLPLVFNHC
3667	11718	A	4599	1	1032	
3668	11719	A	46	105	328	RDLHMKTTITSKVY*LTWH*SGSVGRDYE LHENPLVGPNIKLGFVDISHPNDEYSPL LLQVKSLKEDLQKETIS
3669	11720	A	460	3	284	
3670	11721	A	4600	72	724	FQIAGKWHFQFFHPTRSK*FLS*N*QMV* GA*CPGILLHISPLVSVSATRPKSSFFPS HLSPOYQPQVSLSLNLPFLQTHVTS AFL PRLLARPS*VPS/RSSASA/LSTLQSLYHL PSSHLVRLTVSFRDYPSPTCPATYS*KGG WSQRHSQG*CSF/SLYPKSDSV*ALFHQI* KSSPVHGSFGSNPKTLYSPSP*KVKRPSY SQYTFYYPICSRH
3671	11722	A	4601	2009	3197	
3672	11723	A	4602	3948	5007	VLQTFAVSVTAHKGGTPRVVCSSQWVR GLADFRNEAADPHDQGMENPTDFLER LRGALVKHMSLSPDLVEGQLILKDKFIT QAAPDIERKLQKQNGPSLRDIFFSPQNGY NWRMASFYLPVANKWKILKSLYQILHL GPDWEGPYTVFLSTPMAVEVTGIDSWIH YTQVKAWKADGATSVNPEEHPKYQGEI NSHV AHRKPVWWSLHTDVNEIWCRRSD RGTSILGKS/HPRSSCVLCSVRKIHLRPQV LRPTSPRNISPILNQLATRA/VKSGH*AK ECLQPGIPKPHLICVGP*KSDCS/TSPGS HSQSPWNSGPRLSD/WTPSQIFSA*RLKT DTARSPQKPPRPSRMPFSR
3673	11724	A	4603	567	678	
3674	11725	A	4604	1	305	
3675	11726	A	4605	3474	3657	
3676	11727	A	4606	796	937	
3677	11728	A	4609	664	1059	
3678	11729	A	461	420	690	

3679	11730	A	4610	775	944	
3680	11731	A	4611	279	416	
3681	11732	A	4612	36	4704	
3682	11733	A	4613	124	672	
3683	11734	A	4614	688	940	
3684	11735	A	4615	561	663	
3685	11736	A	4616	217	378	
3686	11737	A	4618	198	347	
3687	11738	A	4619	201	424	
3688	11739	A	462	557	753	IIEIGIMEQRKPWKKICYFICCASHAKGSL /CRRMKRAPVYYGRTVPSPDGSHAGEY HVLLELNT
3689	11740	A	4621	305	440	
3690	11741	A	4622	936	1380	
3691	11742	A	4623	9	1230	
3692	11743	A	4625	942	1293	
3693	11744	A	4626	40	154	RCWLCPHALFLWLASHLCHFYTFCVQ AEC*VMPHPL
3694	11745	A	4627	4	436	
3695	11746	A	4628	465	748	
3696	11747	A	4629	92	393	WPRSGPLRLLRTVCCCVLPLLSHSLHKI SVSAPGP**QIPPPFQNRFSFCDTERG*GG ETPLVPKGFSSPHQTL*GTSSGRTGSAG QLPLLYLSYKTR
3697	11748	C	463	137	274	MRKQLLLPQKKRRVYLLRITKKVEMIPQ DNENPGNTNCHDVVLVQ*
3698	11749	A	4630	1	1614	
3699	11750	A	4631	1	410	KGKVKEAAQRYQYALKKFPREGFGEDL KTFRELKVSLLNLSCRRKMNNNSSSC VHILSSRQFAAALEDLNEAIKLCNNREI QRLLLRVEEECRMQPQQPPPPPPQQ QLPEEAEPEP*RT*TRPSSCVPTTVSRDF C*EWKKSVD/TMQPQQPPPPPPPPQQQL PEEAEPEPQHEDIYSVQDIFEE
3700	11751	A	4632	1	972	
3701	11752	A	4633	196	390	
3702	11753	A	4634	2	4417	
3703	11754	A	4635	158	358	
3704	11755	A	4636	4	152	
3705	11756	A	4637	382	458	
3706	11757	A	4638	46	314	
3707	11758	A	4639	46	271	
3708	11759	A	464	1	2155	MKKKKMKEEEEKEKKEEEEEEEEEERR KEEDDFCNRTPAGGSEGPQSEQPAQ PPEQAGGRPGASPAPDEDAEAGAEQG GDSTEATAKPKRSFYAARDLYKYRHQY PWKLSQFHSSVSHRRKEIDCKAFKWQDL AFFGELTRGKRSQHNYLRITRILKSLGEL GYESFKSPLVKFILHEALVENTIPNIKQSA LEYFVYTIRDRRERRKLLRFAQKHYP ENFIWGPPRKEQSEGSKAQKMSSPLASS HNSQTSMHKKAKDSKNSSSAVHLNSKT AEDKKVAPKEPVEETDRPSPEPSNEAAK PRNTEKDSNAENMNSQPEKTVTPTTEKK ESVSPENNEEGGNDNQDNENPGNTNCH DVVLPRSPAPAAASSMGNLLGGVSFREP TTVEDCDSTWQTDSEPEPEEPGPGGGSE GPGQSEQPAQPPEQAGGRPGASPAPDE DAEAGAEQGGDSTEATAKPKRSFYAA RDLKYRYHQYPQNFDIRYQNDLSNLR YKNKIPFKPDGVYIEEVLSKWGDYEKL EHNHTYILWLPLTEQGLNFYAKELTTY EIDESSKTKEAIRFPPWAYKNDARIFWN KT/GLIKLGMFARGVYWQESFQHLNESQ HNYLRITRILKSLGELGNEFSKSPVKFIL

						HEALVGGILFPILRQSALAEYFVYTIRRTG RRKGRKA/LCGFAP/WKHYTAFQGNFIW GDPPSEKEQFGGGGQRPREM
3709	11760	A	4640	1	1815	
3710	11761	A	4641	1	1284	
3711	11762	A	4642	1	1650	
3712	11763	A	4643	1	1605	
3713	11764	A	4644	303	410	
3714	11765	A	4645	92	395	HHHSKLTVTLSPFPCKKPLPPMKAKIV EERKRNARG*SAKRRKMRQRSQVNPPSF VAPVEATQEHETWNAQTLGMLGTSCGT ACYCLELVSMGSRITSSAL
3715	11766	A	4646	362	497	
3716	11767	A	4647	609	701	
3717	11768	A	4648	1	104	TYV*PSVFKVN*HPT*SSS*HRKDQTDIL NAINQ
3718	11769	A	4649	1	1398	
3719	11770	A	465	226	486	NWTKTIITSMCLWGNASFGQLGLGGIDE EIVLEPRKSDFINIKRVRDVGCGLRHTVF VLDDGTVYTCGCNDLG\QLGHEKSRKKP EF
3720	11771	A	4650	1	1149	
3721	11772	A	4651	3	242	
3722	11773	A	4652	213	658	EGPARHRLSPVRASKMTKKRRNNGRAV KKGRAPRQGTAPLKIFPSGPLPPNCARCV P/RRDKAIKKFRHSET*WEAAAVRDLSE ASVFDAYLALPKLYVKLHYCVSCAIHK QK*SGNRSS*SPAKTRTPPPRF RPAGCW PHGPPTKSP
3723	11774	A	4653	161	295	
3724	11775	A	4655	355	476	
3725	11776	A	4656	662	979	
3726	11777	A	4657	960	1387	
3727	11778	A	4658	696	996	
3728	11779	A	4659	240	461	
3729	11780	A	466	674	1026	LWAEGLVWGSIREWLQHTPPNGIRDW AKQRMWRTGQPQPAPTRVNISRPSPTPF PRFTTKLMWALGTDPTHTHTSHSFAH IHSCTHA/HVQEHTYTYSLPHTSRPFLKG SKSTPKP
3730	11781	A	4660	2939	3295	
3731	11782	A	4661	44	319	
3732	11783	A	4662	2	896	
3733	11784	A	4663	68	438	
3734	11785	C	4664	208	345	MSPDRNIECKATGFTETTYDLLFCKSVD SFYQLLISSSGSKSIT*

3735	11786	A	4665	1	320	
3736	11787	B	4668	1	651	MQKEDCVIVLVKLAVEGMAPTQQIHLF VAITFSGWPRQCTGSSFKAIDLFDPDSV MQQIYSFHFHIMCNFDNHAFQNLMAVID NIKQDRDMDEAGSHHSQQTNTGTGNQT PHVLTHKWELSNENTWTQGEHHTPGP WVLGLADFKNEVVDPHGVKPKQFTVSV TALKDDVSGIHSFLLVGSWSANFRNEAA EPSALFTIAKIWINLSIHQQMNG*
3737	11788	A	4669	1	112	
3738	11789	A	467	153	380	PRSWGQDTPSRGERSPNSSGTPGLPPPG GHPFPSQPVPRQLPPTDLGPFGGQAG IQGVPSGSPTQDGANSRL
3739	11790	A	4670	474	616	
3740	11791	A	4671	197	334	
3741	11792	B	4672	82	402	MGLEKLHPFDAGKWGKVINFLKEEKLS DSMLVEAREASEEDLLVVHTRRYLNELK RKVLRLRTQTGGTIMAGKLAVERGWA NVEAIXRKVELEWGTEDEYLDK*
3742	11793	A	4673	1	1524	
3743	11794	A	4674	39	786	
3744	11795	A	4675	434	1333	
3745	11796	A	4676	772	1107	
3746	11797	A	4677	282	377	
3747	11798	A	4678	233	459	
3748	11799	A	4679	761	962	
3749	11800	A	468	140	754	TAMSSEEGKLFVGGNLNFTDEQALEDVH HFSSFGPISEVVVKDRGTSSGPGGFGFI TFTNPEACFKLPMKKPMNRRSLEWSVR SRCWIMQAKSASGEPEGGGLGAHWGL GSQITFKKVVGGPGLIGELSFAMRAMN GESLDGRQIRVDHAGKSARGTRGGGFG AHGRGRSYSRGGGDQCYGSGRYYDSR PRGYRYRYGRSRD
3750	11801	A	4680	3	190	
3751	11802	A	4681	150	338	
3752	11803	A	4682	168	375	
3753	11804	C	4683	55	444	
3754	11805	A	4684	64	322	
3755	11806	A	4685	2	38	
3756	11807	A	4686	185	451	SQHFGRPRQVDHLRLGVGDQLDQHGET PSLLKIQNWPGVVAHACNPSYSGG*GRR I/RLTLGGGGCGELRSCHCTPALATRAKL RLKKKK
3757	11808	A	4687	344	468	
3758	11809	A	4688	204	286	
3759	11810	A	4689	206	395	TFCLVFFQFSYNFQLVPVFNTALVC*RH* LIAFLNLRH*F*YKYISYIFVKL*QNQISK WF
3760	11811	A	469	2	259	GGINDLAFPH/HENEIAQCEVFHQCEQWG NYFLHSGHLHAKGKEEKMSKSLKNYITI KPSTTVTAPCSKLSSCSWGWALSWRTH VPT
3761	11812	A	4690	2112	2221	
3762	11813	A	4691	116	382	
3763	11814	A	4692	11	666	
3764	11815	A	4693	47	241	
3765	11816	A	4694	246	485	
3766	11817	A	4697	3	728	
3767	11818	A	4698	825	941	
3768	11819	A	47	1478	1732	GGQGRWITRSVQDPHQDGEKPSLLKI QKLARHGGRRL*SQLLRL/RQENCLNL GGGGCSEPRSHPCPAWVTEQDSVSKK KKK

3769	11820	A	470	198	353	
3770	11821	A	4700	1	299	MALRKNEVFEGWDGRKGVSHGEGCFSK GSNIGAYLGKSQEQFEGNIRGNRQIIVNN ESKLKISEEDLTPRMRQRSNTLPKSFGSQ LEKEDEKKQELVDKAIKPSVEATLESIQR KLQEKRAESSRPEDIKDMTKDQIANEKV ALQKALLYYESIHGRPVTKNERQVMKPL YDRYRLVKQILSRANTIPIIVSRIPSRGWY NTFP*CPQGGCFPLASPGASSE
3771	11822	A	4701	1	238	
3772	11823	A	4702	1082	1436	
3773	11824	A	4703	126	417	
3774	11825	A	4704	867	961	
3775	11826	A	4705	3	242	
3776	11827	A	471	103	483	NTAVSTTVAGSCLASESAGAPLPSALS GLGVPAPWNKGRSCLPGRPSTGEDLGA DFIPNPTLGLYIGNVQVPIRFLGSHVSLR PESLLTQLRLNAFVFSGHLHAKGKEEK MSKSLKNYITIKKK
3777	11828	A	4710	244	318	
3778	11829	A	4711	1	1605	
3779	11830	A	4712	1	816	
3780	11831	A	4713	395	1374	KVTLMRWLYKG*NSGPMSV/TEEMDLAI EASEMIVLQSLHKYQPR LHIVEVNDGEP EAACNASNTHIFTFQETQFIAGTAYLNAE ITQLKIDNNPFAKGFRENFESMYTSVDT IPSPGPNCQFLGGDHYSPLLPNQYPVPS RFYDLPQAKDVGSSRVNREVSQDF ADFGTTIKQDFRLLGQTSVDRLLQLSQG QAVKGNQLLPVSLVKRKTTLAPNTQTAS PRALADSLMQLARQVSRLESQDFADF GTTIKQDFRLLGQTSVDRLLQLSQGQAV KGNQLLPVSLVKRKTTLAPNTQTASPR LADSLMQLARQVSRLESQ
3781	11832	A	4714	1	2109	
3782	11833	A	4715	251	623	
3783	11834	A	4716	36	69	
3784	11835	A	4717	328	441	
3785	11836	A	4719	560	688	
3786	11837	A	472	98	1339	GLRAAQAWAPRCRPRWALGGLGGTGL RSLASAGGRGRAWLQPTGRETGVQVYN SLTGRKEPLIVAHAEASWYSCGPTVYD HAHLGHACSYVRFDIIRRLTKVFGCSIV MVMGITDVEDDKIIKRANEMNISPASLAS LYEEDFKQDMAALKVLPPTVYLRTENI PHIISFIEIRIARGNAYSTAKGNVYFDLKS TGDKYGKLVGEVPGPVGEPADSDKRHA SDFALWKAAPQEVFWASPWGPGRPG WHIECSCLASNGIWKVNLDIHSGGIDLA FPHHENEIAQCEVFHQCEQWGNVFLHSG HLHAKGKEEKMSKSLKNYITIKDFLKT SPDVFRFFCLRSSYRSAYSDSAMLQV SSCSWGLGSFLEDARALHGRGAAGLRL RQGSDAVGEALQHQUEGREGGLGR
3787	11838	A	4720	245	382	
3788	11839	A	4721	235	425	
3789	11840	A	4722	253	363	
3790	11841	A	4723	235	320	
3791	11842	A	4724	1	1326	
3792	11843	A	4725	2	1502	

3793	11844	B	4726	144	2704	XHGSVVVWDLREDSRLHYSVTLSDGFW TFRTATFSTDGILTSVNHRSPLOAVEPIST SVHKKQSFVLSPFSTQEEMSGLSFHIALS DESGVLNVVVVELPKADIAGSISDLGL MPGGRVKLWDSSTDHAVTGLQWSPTR PAVFLVQDDTSNIYTWDLQSDLGPAK QQVSPNRLVAMAAVGEPEKAGGSFLAL VLARASGSIDIQHLKRRWAAPEVHSCVE RKWSGHTASRVHTHSPSLLLFCNPLDD WSRSFETEAPKHWWFFEPYRNVKFVKK ETSKKANDLPLSLTPREELARCLWAPSP SVEGPMTAEAVPWNESHSSKGRREGPE PHRRRSSAEQEVQAARLQGKERKARGE HGRIKGRENGAKQDKPRQAPPTVSFVR QPSPPSRESAHSSGTRFQLGCSHTELTGG HLASLCDYLLQTPRPGVPEHRASPGSKC TRHSHSHTLGRGEGVVCTCPSATDTPQV VERESNPLDEVRRGHAGEHRLLSQSLST VGAESSKSTGWAPLNAPVRTFLGESLG SAFSSASIALRTSVKRRHKWARPHNTGA RQPPGGKGTTPGGKEHPYEIKAPPCVSR WLSSPPPGTPSCTTVRRSWLPSALKHCC VLRREMAVCHRLSKCPANAIVKHPCEG KSPPYRALWHRSGVWTVAGTQSPNIR AHRDQTLRNNYTILIPNGNWRHGAYAG VSSFSRX*
3794	11845	A	4727	8	3281	
3795	11846	A	4728	162	347	
3796	11847	A	4729	201	522	
3797	11848	A	473	414	833	NVLVICQRNSNSFKKLFKVRDDGEQTQQ DFSALQ/AS/SQGRPELVHSRGVQGPW HQPPWVCQNPLAKAAFTALLVLESLREE ERTVTAEGAPLSPGGPHTSPSPGRDAGG SNLGTFSRSYSQRLEFLSSRKLCNINCKL S
3798	11849	A	4730	205	424	
3799	11850	A	4731	343	500	
3800	11851	A	4732	103	361	
3801	11852	A	4733	1097	1298	
3802	11853	A	4734	874	1184	
3803	11854	A	4735	451	641	
3804	11855	A	4736	1	1215	
3805	11856	A	4737	1	417	
3806	11857	A	4738	19	345	AATLGHCPSIIQCWRSAGSCPRASSSGPQ ASPMAWV*STDLR*MSWATSLQGWCPQ WPPTPSCSQSSWAAALHHRCGWVCHCH LTGEDLRPEARLPGGQQPGAGGPGPQ
3807	11858	A	4739	40	209	DGRCNSQWSRRLQGPWWHTEGPGPAS ARLPQPHPGPGCPLLCGHCVPEPEEYFP *LPQPHPGPGCPLLCGHCVPEPEEYFP
3808	11859	A	474	635	901	PHPEPKGPKLRA/PLSPDFPPGSRLAGSP GA/PPPPHPEDRLHQGSSHPHPPIRLLER SLAQGGAAPLGPPRMPHGAAPQCSPST PT
3809	11860	A	4740	2	4097	PCPPHADCRDLWQTFSTCQPGYYGPGC VDACLLNPCQNQGSCRHLPGAPHGYTC DCVGGYFGHHCEHRMDQQCPRGWWGS PTCGPCNCDVHKGFDPNCNKTNQGCHC KEFHYPGRGSDSCLPCDCYPVGSTSRSC APHSGQCPCRPALGRQCNSCDSPEAEV TASGCRVLYDACPKSLRSGVWWPQTKF GVLATVPCPRGALGLRGAGAAVRLCDE AQGWLEPDLFNCTSPAFRELSLLDGLE LNKTALDTM
3810	11861	A	4741	2	10321	
3811	11862	A	4742	157	273	

3812	11863	A	4743	469	676	
3813	11864	A	4744	237	497	
3814	11865	A	475	816	1099	HFGEPPFFLRQSL/NSVAQAGVKWRDPS SLQPLPPGFKRFSCPSLPSSWDYRRVPPH LANFCIF/MSRRGFIMLARLAQPQ/CDPPI SASQSARITGV
3815	11866	A	4750	303	1978	
3816	11867	A	4751	142	408	
3817	11868	A	4753	49	163	
3818	11869	A	4754	665	733	AQEP/LTWCLLPTLVPGKCEWRQV
3819	11870	A	4755	334	520	
3820	11871	A	4756	3	222	
3821	11872	A	4757	133	205	DLPQAQSNLQWPRKTS*LKIPHERL
3822	11873	A	4758	250	532	
3823	11874	A	4759	524	677	
3824	11875	A	476	3	232	
3825	11876	A	4760	110	1520	
3826	11877	A	4761	1	635	
3827	11878	A	4762	2	4398	
3828	11879	A	4763	2016	2227	
3829	11880	A	4764	1388	1520	
3830	11881	A	477	2	732	FVPGAEMAASGRCLCKAVAASPPPAWR RDNTEARGGLKPEYDAGVIGAGHNGLV AAAYLQRLGVNTAVFERRHVIGGAAT EEIIPGFKFSRASYLLSLRPQIYTDLEK KHGLRLHLRNHYSFTPMRKRVQAAKVP RCLLGTDMAENQKQIAQFSQKDAQVF PKYEEFMHRLALAIPLDAPVDMAAF QHGSLLQKRRALSTLKPLLKAGRILGAQ LPRYYEVLTAITKVLQDQWFES
3831	11882	A	4770	620	903	
3832	11883	C	4771	230	487	MLNLASPLDKLTLQNTTQNGDSSTHIS NSIHKHTSSSSSVLFPDGTLEALFVSSPKV EASPLEAXVPCSASHSCNTSSKLNRRRL*
3833	11884	A	4772	1	350	
3834	11885	A	4775	97	185	
3835	11886	A	4776	845	942	
3836	11887	A	4777	510	636	
3837	11888	A	4778	22	333	
3838	11889	A	4779	310	422	
3839	11890	A	478	161	610	GRRPSPQETPRPTSLSGAPPTPRHSRCPPN HTVSSASLSLPSRHRLFLTYRHCRNFSILL EPSGCSKDTFLLAIKSQPGHVERRAAIR STWGRVGGWAMGRHLKTD/GSSYGWH DA/RTPTQLMAYESREFDDILQWDFTE FFNLTLKEL
3840	11891	A	4780	1	140	KIRCEGLSRLDKGE/RR/RGKGHDG/LYQ GLSTATKDTYDAFHMQUALPPR
3841	11892	A	4781	17	283	
3842	11893	A	4782	2	673	
3843	11894	A	4784	131	523	
3844	11895	A	4785	197	582	
3845	11896	A	4786	235	416	
3846	11897	A	4787	280	569	
3847	11898	A	4788	208	486	VQRHCLAGLIHHPFQKWPNPKDQILDPIW RQGRSTSPRAPGRRGPGARGPAPSPAP RGVRRWRAGFRQRTPHTGPPAPTAKT LLAGREPPR
3848	11899	A	4789	190	594	
3849	11900	A	479	15	405	GGTGAMAPW/AGGEHSRMNPLRAVWL TLTAAFLLLQLLPPGLLPGCAIFQDLI RYGKTKCGEPSRPVACRAFDVPKRYFSH L\YTISFLWNDISAFW/LFLFLFLTPLSY LRFLFHSHLASCFFHLV

3850	11901	A	4790	523	722	
3851	11902	A	4791	171	320	QDLFSSSRQLEAFSNTCKRTQRTCRNRM MYR*RYSCGGTE*GSYPTNLE
3852	11903	A	4792	243	445	
3853	11904	B	4793	320	434	XQCPLNRMAGHISSPYRSEAVVSSPGAP VRTGPSWEPGK*
3854	11905	A	4794	146	609	
3855	11906	A	4795	874	1126	
3856	11907	A	4796	1	957	
3857	11908	C	4797	209	406	MTRCGSLGPSPLQGVYMATVRRGDSVW WGTECGRDSPAVRVSLFLLCSCWGWS RGLTPWRPCGP*
3858	11909	C	4798	133	237	MFMDXXXXXXGGRFKGSLGGPKFTRAC KVKFFSL*
3859	11910	A	4799	250	422	ASAMVTSTSTPGSILMEVICLTISEGLCKS MSRL*ILIWKRSHVLEPSPQGVFLVVI
3860	11911	A	48	1662	1858	PSFLETEPCSIAQARVGWHDGLSLQPLPP VGSSNSPASASQVAGITGA*HHARLIFLFF VEMGCAE
3861	11912	C	480	80	370	MWAPREQLLGWAAEALPAKDSAWPWE EKPRYLGPTVFEDGAVLFTEAEWKRLSL EQRNLYQEAMLENLRNLGSLXXXXXXX XXXXLALDLNLGFWL*
3862	11913	C	4800	33	158	MRMQQPSVKPGFKDLQCKTmplLLM KYIVLENIGLKIFLR*
3863	11914	A	4801	3	344	AQDRLHWGQTQNGQRRGGHALVPAEV* WDHPSWQINSRFYPKEQ*KVFSTSSSSSS GGAVLKNPWGGQSLRGLARKNLFPYRG PNKNLPGNFGKETLLWGGDKLGQPPSR NLRL
3864	11915	A	4802	7	1268	
3865	11916	A	4803	65	376	
3866	11917	A	4805	64	1355	
3867	11918	A	4806	2	451	AQKESRSVQRSWKLKPLIVLSPLQTGL TVQSTWSTCPVSRLVTLSQLLGVHSRSL SSRCRDEGFSDTDPEATEPQGNPNP*PSC* GAGTAWGRMEPPAPQHPGDFPTPL*MS WC*DCVNPKTTHGPVLWPPFEAKTKQP DTLCSGAGLY
3868	11919	A	4807	239	580	ASTREVSLSGRTWPMIMVVPPTSAAWG MSLLSCTPLCFLPCRLSDR*PCSKASFSSD PRSSRRQVEWHLVKALPSPSEDAPPPPA RNSPAEASVMPQNFLISAKPNPLASL
3869	11920	A	4808	1	180	FPGLGPHPCSNCHLP*APSPLLPG*PPL SSQPLSEERGSEGRSEGVDAAHTARLAP NG
3870	11921	A	4809	1018	1284	
3871	11922	A	481	1	1083	
3872	11923	A	4810	704	978	
3873	11924	A	4812	63	131	
3874	11925	A	4813	204	448	
3875	11926	A	4814	397	553	
3876	11927	A	4815	361	764	RSKYAASKPALAJWDHHPGNLVRISAVH *RHTWFKLLFNVIIFTVFSSHFFNLFFLLF CLFFIHFFFDQPGHCHLCVTPATCVRHL GIMRKSC
3877	11928	A	4816	137	262	
3878	11929	A	4817	265	394	
3879	11930	A	4818	1817	2233	RITFQERLQARSREVGSARPKTARQVC RLPAAAAKSPLARSRSACFRCLQKVTEE RECGRITGSP*TSSFTKTLRTITPFTSHKR RVGIIQSNQPPEPDSNDRTLRLPEPECGCW SESWAPPHFASSNRGLPGSEME
3880	11931	A	4819	569	950	

3881	11932	A	482	3	503	TGTPVSTISWCCYLVCLLACVRAQMW APREQLLGWTAELPAKDSAWPWEEKP IYLGPTVFEDVAVLFTEAEWKRLSLEQR NLYKEVMLENLRNLVSLAESKPEVHTW PFCPLGFGSQQLSQDELHNHPIPGFHA GNQLHPGNPCPEDQPQSQHPSPDKNHRG AE
3882	11933	A	4820	1868	1912	TFVKN*DRSKHITY
3883	11934	A	4821	1003	1094	
3884	11935	A	4822	810	970	
3885	11936	A	4823	133	261	
3886	11937	A	4824	76	475	
3887	11938	A	4825	1	1647	
3888	11939	A	4826	1	1459	
3889	11940	A	4827	456	705	
3890	11941	A	4828	417	791	
3891	11942	A	4829	553	734	
3892	11943	A	483	138	2125	
3893	11944	A	4830	246	346	AFEENLLRVCKKLYSVFTQMPKMNAN VFIGAN
3894	11945	A	4831	3	241	SCERARFWAAAVAGVAATRVRRRLAIT GLTMERKVLALHARKKRTKAKKDKAQ RK*/RLVPQHPILWIFLRHLLCSGTS
3895	11946	A	4832	195	266	GVWRPLSGCNASSA*SQEPCTT
3896	11947	A	4833	1	1278	
3897	11948	A	4834	2854	3176	PVISSVCRASPKSRIFSSQSFTARLLGF RSL*IMSAECIYFRPRRIW*IRN*TWSSVS F*HFHNVVQICPHEMGHQIHIEFLQRPC RCKNVQQTNIHFMFHMFK
3898	11949	A	4835	1	2991	
3899	11950	A	4836	472	575	
3900	11951	A	4837	1	248	
3901	11952	A	4838	676	788	
3902	11953	A	4839	212	677	
3903	11954	A	484	1	2580	
3904	11955	A	4841	92	316	
3905	11956	A	4842	1	578	
3906	11957	A	4845	788	1173	
3907	11958	A	4846	35	406	SGTPASPCLEMDPNCSCSPVGSCACAGS CKCKECKCTSCCKSECRAFPANLGDGPS *SREPRALQAGAGQ*PASPNSFNT*FRIR PQIALKMGCCSCCPVGL/CAKCAQGCIC KGTSKDCSCCA
3908	11959	A	4847	299	981	
3909	11960	A	4848	152	797	
3910	11961	A	4849	1	124	
3911	11962	A	485	1	687	
3912	11963	A	4850	2	719	
3913	11964	A	4851	98	263	
3914	11965	A	4852	741	965	AHLPEFLLSPCPSLGGPRPRSHCRW*HCP RLRAAPPPA*SALCLGGCCECVAAPGRW YCWVPGDRACSPHTCAR
3915	11966	A	4853	105	284	

3916	11967	A	4854	407	1815	TRATR WKRTKRYTLRKTERWSPRVIMD SASR/HAPGNGLYVNYGLKALNIHGGQK LTLAEHGGAYGATADMSAKIGGEGDLAI NTVRQVSLSNQNDYQGATYVQMGTLR TDADGALGNTRELNISNAIIVDLNGSTQ TVETFTGQMGSTVLFKEGALTVNKGGIS QGELTGGGNLNVTTGGTLAIEGLNARYN ALTSISPNAEVSLDNTQGEFSSKRRQTRK EIFLSRMEQILPWQNMVEVIEPFYPKAGN GRRPYPLETMLRIHCMQHWYNLSDGAM EDALYEIASMRLFARLSLDSALPDRTTIM NFRHLLAQHQLARQLFKTNRWLAEAGV MMTQGTLDVATIEAPSSTKNKEQQRDP EMHQTKKGHWPLWHEGPHCLVTTAA NEHDLNQLGNLLHGEEQFVSADAGYQG APQREELAEVDVDWLIAERPGKVPARHR LSAHGCVLYTALSRRIVALPLPVSAPP
3917	11968	A	4855	1020	1352	
3918	11969	A	4856	491	628	KTITNWRCSRWPTCFGRTK*YDWHRQ MTPPRQRAVLWTKSPKTV
3919	11970	A	4857	1	1872	MVIVPIGYAAQELFDVSQVRGGTPYGAT TIAGGDGSRQPSQEELSIARYQGEYVAG VRYRSTFYPGIS/ALSVLSHILVLYCTAGL HIGAAIVPTRYAYCNSEFSSKRRQIRKEI FLSRMEQILPWQNMVEVIEPFYPKAGNG RRPYPLETMLRIHCMQHWYNLSDGAME DALYEIASMRLFARLSLDSALPDRTTIMN FRHLLAQHQLARQLFKTNRWLAEAGV MMTQGTLMHQTCKGNQWHFGMKAHIG VDAKSLTHSLVTTAANEHDLNQLGNL LHGEEQFVSADAGYQGAQREELAEVD VDWLIAERPGKRSASCIQKLNTTMIYVT HDQTEAMTRIVIMKDGIVQQAER NDWHFTIGAMYEIENVEGYGEDLDGLA DPSVYFNAANGPCRIALGYHEGPENIT RAPEEMRSFLLDAGAEYNGYAADLRT WSAKMTNDYAQLVKDVNDEQLALAT MKAGVSYVDYHIQFHQRIAKLLRKHQII TDMSEAMVENDLTGPFMPHGIGHPLGL QVHDVAGFMQDDSGTHLAAPAKYPYLR CTRILQPGMVLTIIEPGIYFIESLLAPWREG QFSKHFNWQKIEALKPFGGIRIEDNVVIH ENNVENMTRDLKLA
3920	11971	A	4858	1231	1407	
3921	11972	A	4859	491	553	
3922	11973	A	486	444	843	EKSVYSLIFPCVFFLPSTWEKEDAVNIIQ FWLAADNFQSQLAAKKGQYDQGEAQN DAMILYDKYFSLQATHPLGFDRCCITKKI ESNICREGGPLNCFTTPLRQAWTMEK VTQNFKRIKLQEVLLVELNKI
3923	11974	A	4860	3	278	
3924	11975	A	4861	2455	2871	
3925	11976	A	4862	656	949	LLHRFCRWPALAPGAILRQIPKKQQRVG LHYSPPMSYVSWRYRVCHWTITVFLSK TLATSYARPASISVKNTKWRCFPLPKVK TNH*NIRICLPPPR
3926	11977	A	4863	448	582	
3927	11978	A	4864	495	920	WRRDRRCASHHFAVSVTTIGSSRDPDAG SLPVHSWRRKERRSALYLHRSRSHRRT YPRDRRRAFWFVQPRCWLAAILSGH*T GGCT*NIRSHQLGTSQTLRCVQNHRCR RCRSSDRPLRVLSWHARKYQTPGRCSE R
3928	11979	A	4865	1	2799	
3929	11980	A	4866	3675	4064	VSSDQNRRCNRCYGRQLPGGCFSLWC QFSASKSYLSPSDL**W*/QLSPASRLPL ASLTISSSLSCAGSASFHSRHPGRCTCR YLRVFGVAFWAVW**HVDLKSQQGKS

						AKKRQIAEKGRNYTQNP
3930	11981	B	4867	1	2325	MNLMEQPAKDQYLSTQGLPVLVNSLAR YPQEALPITNYFAASELAPAVARAFNKL KTLRENARSWLLKYPEHALTGLLPAALG KAGEAQDNARAALRMLTENGHQPLLQE IARRYNQPEVTDVAVNALLALDPLDNHPT KIPTLPAFYQPSLWTRPVLKANAQSLPDS ALLHLGEMLRFPQEEALYPGLLQVKDVC SADSLAGFAWDLFTAWQTAGAPSKESW AFTAEFSSKRRQTRKEIFLSRMEQILPWQ NMVEVIEPFYPKAGNGRRPYPLETMLRI HCMQHWYNLSDGAMEDALYEIASMRL FARLSLDSALPDRTTIMNFRHLLQHQ ARQLFKTINRWLAEGVMMTQGTLVDA TIEAPSSTKNKEQQRDPEMHQTKKGNQ WHFGMKAHIGVDAKSGLTHSLVTTAAN EHDNLQGNLLHGEKQFVSAMPATKEP QREELAEVDVLLIAERP GKVKTLKQNP RKNKTAINEIYMKASIRARVEHPFRIKR QFGFVKARYKGLLKNDNQLAMLFTLAN LFRVDQMIQLPTYELSSGIGAVRRQAE DGTPAINSKRVYRIMRQNALLERKPAV PPSKRAHTGRVAVKESNQRWCSDGF CCDNGERLVRTFALDCCDREALHWAVT TGGFNSETVQDVMLGAVERRFGNDLPSS PVEWLTDNNGSCYRANETROQFARMLGLE PKNTAVRSPESNGIAESFVKTIKRDYISIM PKPDGLTAAKNLAEAFEHYNEWHPHSA LGYRSPREYLRQRACNGLSDNRCLEI*
3931	11982	A	4868	82	199	
3932	11983	A	4869	882	1091	VCHAAPPILRTTATSVPVAVPGAASDSGY AAQFAAYIAC*LRAAFPSGGIHTAASHPS SISPRQRTAGS
3933	11984	A	487	77	199	SKSRPIASNKIEAIKSLPAKKPAGPDGFAT EFYQITKEEL
3934	11985	A	4870	3	274	
3935	11986	A	4871	2888	3076	KTITNWRCYSRWPTCFGRK*YHWHQL LSMVRQLMVLWKKISSWFMGPPIIRKSI LAENSI
3936	11987	A	4872	1	2043	
3937	11988	A	4873	222	513	PEGAPRTPGGLPRAPGRTSEGAGRRGGP LGPVVTMCLPRRQLSYPDVG*AEGGLPA LDPWPGHARGSEGPRRQGGAVLAVRLG GRVYVHLHTPGGQ
3938	11989	A	4874	20	161	

3939	11990	A	4875	1	2251	MAGVGAGPLRAMGRQALLLLALSHRRQ GLYFHIGETEKRCFIEEIPDETMVIGNYRT QMWDKQKEVFLPSTPGLGMHVEVKDP DGKVVLSRQYGSSEGRFTFTSHTPGDHQI CLHSNSTRMALFAGGKLYREERFRLTSE STNQRVLWWSIAQTVILITGIWQMRHL KSFFEAKKLVRRAALLSSAMEDSEALGF EHMGLDPRLQAVTDLGWSRPTLIQEKA IPLALEGKDLLARARTGSGKTAAYAIPM LQLLHRKATGPVVEQAVRGLVLPVPTKE LARQAQSMIQQLATYCARDVRVANVSA AEDSVSQRVLMKPDVVVGTPSRILSH LQQDSLKLKRDSELLVDEADLLFSFGF EELKSLCHLPRIYQAFILMSATFNEDV QALKELILHNPVTLKLQESQLPGPDQLQ QFQVVCETEEDKFLLLYALLKLSLRGKS LLFVNTLERSYRLRLFLEQFSIPTCVLNG ELPLRSRCHIIISQFNQGFYDCVIATDAEV LGAPVKGKR/GAEGPKGDKASDPEAGV ARGIDFHHVSAVLNFDLPPTPEAYIHRA R**CDGPGICMTARANNPGIVLTFVLPTE QFHLGKIEELLSGENRGPILLPYQFRMEEI EGFRYRCRDAMRSVTKQAIREARLKEIK EELLHSEKLKTYFEDNPRDLQLLRHDL LHPAVVKPHLGHVPDYLESKVPEPTAQL QAQRKEIQTHSQALLRLLGLSGAEHIVE HRLTPFVDRRGSGAYCTA
3940	11991	A	4876	2	2318	
3941	11992	A	4877	866	1150	
3942	11993	A	4878	417	872	
3943	11994	A	4879	3	282	
3944	11995	A	488	29	380	SETPQAPTLPQTQGSLEGEERMEDIRTLT VALFTLICCPGSEKVFVHVVRPKKLAV EPKGSLEVNCSTTCNQPEVGGIÆTSLAD KVFAQTEQAQWKHLLGSSNLSPADTVLA HCHF
3945	11996	A	4880	2	437	
3946	11997	A	4881	336	442	
3947	11998	A	4882	523	630	
3948	11999	A	4883	1	1004	MAPWPHESSLAPWPDLPPLANTANTS GLPGVPWEAALAGALLALAVLATVGGN LLVIVAIAWTPRLQMTNVFVTSLAAAD LVMGLLVPPAATLALTGHWPGLGATGC ELWTSVDVLCVTASIELCALAVDRYLA VTNPLRYGALVTKRCARTAVVLVWVVS AAVSFAPIMSQWVRVGADAEARQCHSN PRCCAFASNMPYVLLSSSVSFYLPPLVM LFVYARVVFVATRLRLRGELGRFPPE ESPPAPSRSLAP/APGYANSFNPPLIYCRS PDRSAFRRLLCRCGRRLPPEPCAAARPA LFPSPGVPAAARSSPAQPRLCQRLDGERHL
3949	12000	A	4884	144	1423	
3950	12001	A	4885	1309	1702	
3951	12002	A	4886	1	648	
3952	12003	A	4887	1	1049	GGGGTTWPASVPPRHLACLRPAAPLRLP PSPARRAMPVAGSELPRRPLPPAAQERD AEPRPPHGELQYLGGIQLHILRCGVRKDD RTGTGTLVSFGMQARYSLRDEFLLTTK RVFWKGVLEELLWFIKGSTNAKELSSKG VKIWDANGSRDFLDSLGFSTREEGDLGP VYGFQWRHFGAEYRDMESDYSGQGV QLQRVIDTIKTNPDDRRIIMCAWNPRDLP LMALPPCHALCQFYVVNSELSCLYQRS GDMGLGVPFNIASYALLTYMIAHITGLK PGDFIHTLGDHIYLNHIEPLKIQLQREPR PFPKLRILRKS*RKLIDFKAEDFQIEGYN PHPTIKMEMAV
3953	12004	A	4888	437	851	

3954	12005	A	4889	1	1063	
3955	12006	A	489	27	406	
3956	12007	A	4890	496	701	
3957	12008	A	4891	875	1156	
3958	12009	A	4892	76	382	
3959	12010	A	4893	71	228	
3960	12011	A	4894	69	242	
3961	12012	A	4895	146	431	
3962	12013	A	4896	3	262	
3963	12014	B	4897	185	338	MSTTFMGRSQATGGCVQTDTPGPPTLLQ DTQQLSVVHPDIQLEVGFPGGGGX*
3964	12015	A	4898	69	303	
3965	12016	A	4899	260	881	
3966	12017	A	49	245	616	NPPN*NPPNACVKPEFENQPKLWSQRG VGGPRREGPPAQPAPEGTAGRRADKLV RVGWRPPPATSAQGSAPPLFC*SSRSR GPSSPCLEAPTPGASPST*TITPPRAWRR ACWTWPCSCPTPCG
3967	12018	A	490	191	1074	RLPEMSSFGYRTLTVLFTLACCPSDE KVFEVHGEAKGSWAVEPKSLÆVNCST TCNQPS*SGVGLDLS*D*GFCWDEQVQ L/WKHLYLGFQTFSHDVLQ\CHFTCSGK QESMNSN/VSALYQPPRQVILDTCNPLL GGFLGKSFHHLKLQGVPTVEPLGQP*PSF LVS VGNETL\HYETFGKAAPAQEATATF NSTADREDGHRNFSCLA VLDLMSRGGNI FHKHSAPKMLEIYEPVSDSQMVIIIVTVVS VLLSLFVTSVLLCFIFGQHLRQQRMGTY GVRAAWRRLPQAFRP
3968	12019	A	4900	373	491	
3969	12020	A	4901	1	232	
3970	12021	A	4902	3	701	
3971	12022	A	4903	3	1622	
3972	12023	A	4904	26	168	
3973	12024	A	4905	258	484	
3974	12025	A	4906	1121	1518	
3975	12026	A	4907	19	541	
3976	12027	A	4908	288	561	
3977	12028	A	4909	1	1857	
3978	12029	A	491	3	403	SWSGSAAALRMRPVRLMKVFVTRRIPA EGANLKVISTMSVGIDHLALDEIKKRGR VGYTPDVL/TRYHRRTRSLPATYHLPV AGGHRGSEEW/WTWKPLWLCGYGL TQSTVGIIGLGRIGQAIARRLKPFG
3979	12030	A	4910	81	414	
3980	12031	A	4911	1	507	
3981	12032	A	4912	519	858	GLSEILAIGFCPHQVQRGPI.GKVLQSLA AQLPGPFTRLVHRRQSLHAVPKCIHAVP CSFTLFHLPQEGLQRPEFLAPWGLHLKA TPVWPFANPRCCSILGAGGYFVQLTLGM S
3982	12033	A	4913	67	467	
3983	12034	A	4914	2	307	
3984	12035	A	4915	1	2112	
3985	12036	A	4916	796	1018	
3986	12037	A	4919	512	625	
3987	12038	A	492	2	465	DAAGANLKVISTMSVGIDHLALDEINKR GIRVGYTPDVL/TRYHRRTRSLPATYHLP PVAGGHRGSEEW/WTWKPLWLCGY GLTQSTVGIIGLGRIGEAPTGPLARPGSHS VVCIPGTTCLKAEKTHMLSGHFACSRDIS NEGYSFVKHRQIHK
3988	12039	A	4920	206	366	
3989	12040	A	4921	504	690	

3990	12041	A	4922	3	336	
3991	12042	A	4923	22	129	
3992	12043	A	4924	852	1364	
3993	12044	A	4925	1	897	
3994	12045	B	4926	449	2578	M L L E C E E E A V C V I M C A S V K Y N I R G P A L I P R M K T K H R I Y Y I T L F S I V L L G L I A T G M F Q F W P H S I E S S N D W N V E K R S I R D V P V V R L P A D S P I P E R G D L S C R M H T C F D V Y R C G F N P K N K I K V Y I Y A L K K Y V D D F G V S V S N T I S R E Y N E L L M A I S D S D Y Y T D D I N R A C L F V P S I D V L N Q N T L R I K E T A Q A M A Q L S R W D R G T N H L L F N M L P G G P P D Y N T A L D V P R D R A L L A G G G F S T W T Y R Q G Y D V S I P V Y S P L S A E V D L P E K G P G P R Q Y F L L S S Q V G L H P E Y R E D L E A L Q V K H G E S V L V L D K C T N L S E G V L S V R K R C H K H Q V F D Y P Q V L Q E A T F C V V L R G A R L G Q A V L S D V L Q A G C V P V I A D S Y I L P F S E V L D W K R A S V V P E E K M S D V Y S I L Q S I P Q R Q I E E M Q R Q A R W F W E A Y F Q S I K A I A L A T L Q I N D R I Y P Y A A I S Y E E W N D P P A V K W G S V S N P L F L P L I P P Q S Q G F T A I V L T Y D R V E S L F R V I T E V S K V P S L S K L L V V W N N Q N K N P P E D S L W P K I R V P L K V V R T A E N K L S N R F F P Y D E I E T E A V L A I D D D I I M L T S D E L Q F G Y E V W R E F P D R L V G Y P G R L H L W D H E M N K W K Y E S E W T N E V S M V L T G A A F Y H K Y F N Y L Y T Y K M P G D I K N W V D A H M N C E D I A M N F L V A N V T G K A V I K V T P R K K F K C P E C T A I D G L S L D Q T H M V E R S E C I N K F A S V F G T M P L K V W E H R A *
3995	12046	A	4927	533	804	
3996	12047	A	4928	965	1109	
3997	12048	A	493	217	426	T L V N M V E A D V T T R C L I R S G I R V G Y T P D V L / T R Y H R R T R S L P A T Y H L P P V A G G H R G S E E V S E R R P G A V A H G C
3998	12049	A	4930	507	981	C W R S T A T C Y Q W V I K S A N R C T L Q V G T R R R T M D N G D E R H S R I C P G M * E A A R S L F I P T / C Q R T R H * R P V P Q R L R S N T A P I R T / R P R P S V H R P T G R E S M P R T R P P E P E P L Q T P L A A T K R R S T S E N A S Y S D A L L R G L G K L S G K D R E A R R G P R S R P G S R V Q T A G A A L
3999	12050	A	4931	1121	1272	
4000	12051	C	4934	178	360	M G Q E L R H F G T V T W P M H R K M E R R X F P R E Q G P G X Q L L P Q W R G N E K T L G S A G R Q G E D H R L R A E *
4001	12052	A	4935	409	516	
4002	12053	A	4936	288	573	
4003	12054	B	4937	1	1152	M G S E A G C L V R A E R F Q L I V E R D V R S S F P S W K E L S M P G F I Q K Q A R V Y V Q F F L A D A L I L P V P R P C L H S A T P S T P Q T D P T G P E G P H L G Q S R L F L L C H K E A L M K R N F C V P P G A S P E V P K P A L S F Y V L G S W L G G T Q R K E G T G W G L P E P Q G N D D N D Q K V H L I F F G S S V R W F E F L H P G Q V Y R L I A P G P A T P M L F E K D G S S C I S R R P L E L A G C A S C L T V Q D N W T L E L E S S Q D I Q D V L D A N K S L P E S S L T D L L S D K S H N V Y C C F R S S T Y V Q V L S F P P E T T I S I P L P H I Y L A E L L Q G G Q S P F Q A T A S C H I V S V F S L Q L F W V C A Y C T S I C R Q S S A R V D E P M T M F L W T L C T S P S V L R P I V L S F E L E R K P S K I V P L G T P S R S S S F O P F A A R A K G G K *
4004	12055	A	4938	409	701	K E K V K V N W L L N P L P K A Q E F G Y P S P L P A T L H L K L G S R P C K L Q D H / C C C H M V I H T G H H G F G S P I L H Q E P M G S R R K Y S R L
4005	12056	A	4939	301	573	

4006	12057	A	494	80	1058	RCSSPAGYPPRCRVALARAADCEVEQW DSDEPIPAKELERGVAGAHGLCLLSHD VDRILDAAGANLKVISTMSVGIDHLAL DEIKKRGRVGYTPDVLTRYHRRTRSLPC SYHLA\FLAGGLAQSEEW\WTSW\KP LWLCGYGLTQSTVGIIGLGRIGPGLLV LKPFQVQRFLAYTGRQPRSEEA\EFQAE FVSTPE\AAQSDFIVVACSLTPATEGLC NKDFFQKMKETA\VF\INISRGDVVNQDDL YQALASGKI\AAAGLDVTSPE\APTNP LLTLKNCVILPHIGSATHRTRNTMSLLAA NNLLAGLRGEPMPSELKL
4007	12058	A	4941	339	494	
4008	12059	A	4942	408	546	
4009	12060	A	4943	1421	1581	
4010	12061	A	4944	1	1113	MHQEDLRAWYLDLGLPSHQNAQPTAW KCQRAPSPYTHQDMALIPSPTARWLSPE KEPKQGEVGEKSLLPDTLPLTDPRLTGS TEQAHAEGLAALMSALRVSHLQGRGGV VTLVDSQLGVIAVSSTQFNKGPSYRLLA DVQNRLLPKYDSQKEAELRSWIKGFTGL SIRPDFQKGLKDGIILCTLVNKLQPGSV KIN\ASV*NWH*LENLSNFLKAMVSYGM /NPVDLFEANNLFESGNNMQVRVSLAL AGKAKTKGLRSGVDIRDKYSEKQNFDD TTMKASQCVIRLQITNKCASQSGMTAYG TRRHLYDPKNRILPPMDNSTISLQMGTN KCASQVGMTAPGTQRHIYDTKLIDKCE NSSMSLKMGYT
4011	12062	A	4945	272	902	
4012	12063	A	4946	281	470	TGSWSQCTPSC*TTMCVYTFMTYTAW GCPPNHVQPHA*PVSPTVLLNVGFRAGA VFSGHGYL
4013	12064	A	4947	1192	2248	APSKKLRSATLRRPGSSKDTARGPVSVG WCPSQEPLGARCATSCPWLCRLPSSVFS PRALAIRLGGGSGSLAGCAARLQGSVP CWPLARLSASATPLSELRQQPAPPPRC DPGSRLSVPVAPCPAPRAPQPRRLPSGP RFCRCPSLSVCRSLG/PVSPPPQFPLPCLP RWLARSALGRGETASQANPRNLCKKL AMKFKKFFDFGAIFEWSQSFLSPRPVRF PLEPEGSPVPASLPERPSRHPASSGRLQ DPGLILCSLCHYLFIRTDYAVVTRAGNG GECVWLQKFPVKLASLMMSFGLYIGHF LGVPPANPQEA\PRTRSFFTPKSVMEPSAV PGTAERVLPHPG
4014	12065	A	4948	654	730	
4015	12066	A	4949	1574	1881	
4016	12067	A	495	3485	4056	DLPSRHRVMEACHVCCVRRGCCV/CAC /ICVCHMCSVWCVRCVLCVPQVLCVH ALCV\CVCLQCARYVWCMCCVCSVLC MRCV/CVCVPRVLCV\CVCCGCSRCVW CVCCVCRV/CLCV/CACAVWCVCCMC/L CVLCV/CACACVCCVCRVCSVWCVRCV/ CVCCACSVWCVLWCVC/VCMQCVCYV WCMCCVCCVCLE
4017	12068	A	4950	207	315	
4018	12069	B	4951	199	420	MSLPIGIYRAVSYYDDTLEDPA\MTTPPS DMGSVPWKPVIPERKYQHLAKVEGEA SLPSPAMTLSSAIDSVDK*
4019	12070	A	4952	336	594	
4020	12071	A	4953	401	1301	
4021	12072	A	4954	388	681	
4022	12073	A	4955	272	452	
4023	12074	A	4956	256	381	
4024	12075	A	4957	58	301	
4025	12076	A	4958	562	1221	

4026	12077	A	4959	152	358	
4027	12078	A	496	1	858	
4028	12079	A	4960	184	361	
4029	12080	A	4961	2017	2406	
4030	12081	A	4968	1	396	
4031	12082	A	4969	67	180	
4032	12083	A	497	106	542	GATLGGMSEHVEPAA\PGPGPNGGGGGP AP\ARGPRHPQFSTPTPLINVRDLFHA\ FFKMAV\TY\SRLFPPAFR\RLFEEFFVLLK ALFVLFVLAYIHIVFSR\SPIN\CLEHVR\D KWPREGNPALWKVRHNSSRAPVFLQ\FC D\SGGR
4033	12084	A	4970	2	415	
4034	12085	A	4971	1090	1203	
4035	12086	A	4972	3	356	VQNRTLHFSLLYEPKRKSKPESYLICYKI FQDEPLAP*AFL*IPASLSQIQ*FTSRK GK ASQNLIIYIVIKYSKMSLWPPEPCKYLPP CLKSNSSQLSWLLWCVLVWGVGWKYC QGWGGPPLHLVSLWGGYSASRWEDIGK QHTSLRGVPGVIFIIYI
4036	12087	B	4973	148	305	MDNSASVEQLQETLLRALRALVLKNRPL DTSRFTKLLKLPCGPFISLGHN*
4037	12088	A	4974	484	927	
4038	12089	A	4975	2053	2615	RGCPFGGRKAPFGLLFNVKDQTVMFSLR TTYSLQELGAMGMDLLSAMF\DFSEKL NSLALTEELGLFTA\VLLVSADR\SGME NSASVEQLQETLLRALRALVLKNRPLE TSRFTLLLLKLPDLRTLNNMHSEKLLVLS GWTAPVTPPRAGLSAGCPLCTESELCTS LSFYETEKEKQTRILFILL
4039	12090	A	4976	173	520	
4040	12091	A	4977	44	213	
4041	12092	A	4978	840	980	
4042	12093	A	4979	72	464	
4043	12094	A	498	309	586	NKNLEISFFFETESRCCQPRLECNCAISV HCNLCPLPGSSNSPTS\ASQVAEMTG\CH HAQLIFVFLVAMVFHLH/VGQGGLELLT SGGPPASASQ
4044	12095	A	4980	1	132	
4045	12096	A	4981	99	212	
4046	12097	A	4982	84	196	
4047	12098	A	4983	2	186	
4048	12099	A	4984	87	347	SLNFHIGQ*AQPHAGFGLRGS*GPCPPCC QANAC*APEPNDMEDQAPGVRHPPLSN VKIQGSE
4049	12100	A	4985	176	1554	
4050	12101	A	4986	1	1863	
4051	12102	A	4987	1171	2784	
4052	12103	A	4988	176	464	
4053	12104	A	499	3	451	
4054	12105	A	4990	7	394	HHELQYPIRFCPIKSCCKGRNSLQNKIYD LSLQNFPPATLRQNLALSPRLECSGTISAP CNLHLPGSSDSPASASRVAAGNAGMHCH KQLIFVFLVETGFHHVAQAGLRTP*PCG SGPGRPKSAGDLQ

4055	12106	A	4991	1	2201	MTNLMVERDSEAGTAASRFPGNHAAK GKAQAHYKVWRPAEVRCLKLGPWEVVT LRYTIKHRPYKLCGKRQHVFFFTSRSDV GFMLTTLPFGSVSVESKMNNKAGSFF WNLRQFSTLVSTRTMRLCCLGLCKPKI VHSNWNILNNFHNRMQSTDHRYLFQDA FIFKSDVGFQTKGISTLTALRIERLLYAKR LFFDSKQSLVPVDKSDDELKKVNLNHEV SNEDVLTKETKPNRISSRKLSEECNSLSD VLDAFSKAPTFPSSNYFTAMWTIAKRLS DDQKRFEKRLMFSPAFNQLCEHMMRE AKIMQYKYLFLSLHAIVKLGIPQNTILVQ TLLRVTQERINECDEICLSVLSTVLEAME PCKNVHVLRTGFRILVDQQVWKIEDVFT LQVVMKCIGKDAPIALKRKLKLEMKALREL DRFSVLNSQHMFEVLAAMNHRSLILLDE CSKVVDNIHGCPRLRIMINILQSCDKLQY HNLDLFGGLADYVAATFDIWKFRKVLFI LILFENLGRFPVGLMDLFMKRIVEDPESL NMKNILSILHTYSSLNHVYKCQNKEQFV EVMASALTGYLHTISSVENLLDAVYSFCL MNYFPLAPFNQLLQKDIISELTSDDMK NAYKLHTLDTCLKLDDTVYLRDIALSLP QLPRELPSSHTNAKVAEVLSSLLGGEGH FSKDVHLPHNYHINDFEIRMDTNRVQVL PL/SLDVGTTSATDIQRLLTYISFAGLSEL KS
4056	12107	A	4992	3	485	LHTLDTCLKLDDTVYLRDIALSLPQLPRE LPSSHTNAKGGQRS*AALLGGEGTPPSK DVVHLAPHNYHIDFEIQNGTPNRNPSAYP LSVDVDTTSCLOIFKE*LCYVFPERSAYCLG SSHPRGFLAMKMRHLNAMGFHVILVNN WEDGQTRDGRQCSPFLKT
4057	12108	A	4993	40	131	ATKAFEENEVYKTTLVVYCFKCVILKASL *FRILLTEWFYMRWLKKYHIVCF/PLG DAKIFCFMYITVLFKLTLEDSC*TLVVYCF FKCVILKASL
4058	12109	A	4994	2437	2762	GIILFWAQLFPASFFFFF*DGVSLLCCPG WSAVVRSQLTASSASRVQAILCLSLPSS WDYRHLPPCLANFFVFL/CRDGGFTMLA RLVLNS*AS*VHPPWPPQSAGDY
4059	12110	A	4995	1	299	FSLIKISMMLLMKMEK*NLQFIW/KPRRL QIAKARLNASSSSSSSSSSSSSSSVVW YWHKKRHIDHWNRENSNINRHICSQLI LTKVPGANTKDHP
4060	12111	A	4996	3	358	
4061	12112	A	4997	76	386	VLPPPSSPALHSPAPPSTCPYLPGA/PPPLL PPCAGRSPAAAAPHCPAPCAPRH*GSR* LESPAPQGQPSRAARMPAWPLPPAPPTD PTAPPAPRSHWPAAPPT
4062	12113	A	4998	66	381	VLPPPSSPALHSPAPPSTCPYLPALPPLE/ GPPSRRPRTFIGNPGGQGPGEVSPVLRS PSQPH*PGNQGPCSSQPPGSPRSEHGC* HRCWALYGGQEKPAAS
4063	12114	C	4999	36	236	MGPTIPDXSXFWRKPITWMPTWEGTSN VGPQPLSSSKSLHSXRGHPAPIPTGQAGP RDSGPGASP*

4064	12115	A	5	105	1711	VESNTGRKWTEAAGTGDICLAWGSSG DGRGGDPRGRVPAAALGAAVVAAMAS PDPWAPGPKQPG/LMGRPGSSPALWAQ\ PA*PPY/FPGLTPPCPQEVQSFPGPG/EQG RVLRGGQNVNT*GEGRVQVCGRRPPCPS LMEPFVYTPASPFPSGQPQGTGRRQDG EPRLGTGGQTGSPGPGLVSGPRGRAAKP GGTQGGGLVRQVPPGEHPTPGEARI*HLG WVGCP*RMGQGNFVASKPFLDL/PGPM LGSTNCDNLGSFGLS/GPMFPKWPTSTGR LPKGPSAN*GG/PGMERPPGVMPSS/GHQ DPEASGPLDLLVRAALQGG*ALGHK/GG AS*TSQKAESLPQPLGPPGGGCYGITQNP LASGPKQTSWGRPGSFPALWAQNRLT FLTPRPSPPCPQEVQSFPGPG/PSQGAER RARLSPRERGGFLKVCGRPPCPSMMEP SCLHTC*PLSLPASLRQAKEPPSCGLRAP S*HLRRPCLTPFRPQGLLTSHCPQKPA PDSGLLHSPNSPRGFSGQCNPRRLHPQL NPSNRDR
4065	12116	A	50	96	547	ADPAAPVPWFGPSQPGARAQWPGLLGP AAPPPALCSP*TD SGVQDPVSNAPWVN SQQWWRQ/PAATEKPPATKAPGLLVQEK YKVS*QKGW/PSTKKAKGYFP*NCPL QFLLPPLLSPPGDISGQCPHLKPLIPPS YPAPCPGFCPR
4066	12117	A	500	2	493	GLEFGTSHRLRENPPMVAVSCPTKTNVK GPPGKVGAGHAGVEYGSEALERMFSLFP T\TKTYFPHFD\ASHGF\AQVKGATAKKV A\DALTKAVANV\DDMP\NGAVRPEATL HAHKL RVEPVNFK\LLKPLACLVDGPA HLPGRVSPLAVARLPWNKVS\WAFCGQI
4067	12118	C	5000	231	521	MRAPVCQSQSVYFTQTISLKPTITVPGRC DAFQVTNNKLAQATQSEG VAGASNPD ESHEPAHGMQREFSGVTAVSQADTMVN YPVSNNGWENRGSG*
4068	12119	A	5001	46	1438	LSTPTALVWPGHRPP*PIP*WPLCPQEGG PGGLPRGWSSGT VAP*S*AGGCEGKIQS YPQGSASWSEPAPSPS/PAFPAPFLMLNC SGPLALSLSGPKWAREQL*CVPPRALAT GLPLEVWL*LRFPWP*CLPPPG/PWVQL LHSLSSCWGPPMPRTIRGIPPGSICRLCF CPAAGL\PPWWLSSGQLPHPPGTPLCSVS *GGPDQPPLLCLSPWAPGLSSTALCHSRL VLPATPIPVV\TWPCGLSTT/PPAPGATPT PAACFQQVPSAPDKPLL\SPSPAKHPPVP PPVGLGLRAMDR/PPGPIPETPRD/LPCHP TPPKSKLQARGPWPGWVD*TTSGWKLR KEALMGPTIPDPKSSSWAGPLVSLPLVL GGNPSPWNALRGKRDPRKCGNPQPPSPK LRKSPTA\PGKTPAPYSPREKAGPQKTL GPRGPPP*SRDPPL*L\RTPADPGVTRGA GPPAPRRNP
4069	12120	A	5002	1	874	LDDALESCDEHG YRTASSCLRKGV MV KSSSNREL V*SRYTDITI/SGSTSEFPDWA AGQRGSSHPRRWAARQRRSSLHLFYSEP DTDAKHQDDALTEEET*G/SRSASCAHW L*SNCCTATGSSTLLPLTSRL*LPRMAVK SSRASAALPSSRFSSWHRACSASPAAATT AAPSAWGLSSNIPSGPAGCAPRPPTSFL PGALPTTTTTRRHSS\DRSRSPSRGLTSAR ESGSKSPQG/TARDSRQALRSAMVTKTS WRMELDRECGRSSCTSTFCVSAASRGFL LQTSFRWE
4070	12121	A	5003	1	2487	

4071	12122	A	5004	227	2119	RCRKEMFSLCWAYYCI*KLQQIPMR LAP LPTLDPV*SP/GGASTATNSGSSVTSSGV TATISGSSVTSNGVSIVTNSEFHTTSSGIS TATNSEFSTASSGISIATNSESTTSSGAST ATNSESSTPSSGASTATNSDSSTTSSGAST ATNSDSSTTSSSEASTATNSESTTSSGAST ATNSESSTVSSRASTATNSESTTSSGAST ATNSESRTTSNGAGTATNSESTTSSGAS TATNSESSTPSSGAGTATNSESTTSSGA GTATNSESSTVSSGISTVTNSESSTPSSGA NTATNSESSTTSSGANTATNSDSSTTSSG ASTATNSESSTTSSGASTATNSESTTSSG ASTATNSGSSTTSSGTSTATNSESSTVSS GASTATNSESSTTSSGASTATNSESSTVSS GASTATNSESSTTSSGANTATNSGSSVTS AGSGTAALTGMHTTSHSASTAVSEAKPG GSLVPWEIFLITLVSVVAAVGLFAGLFFC VVSACVPLCECRDALKMPGGLEQLL TES RIVHWGTEGRPIATAEGWVLLAMKIRL AAEAKIKCFLDGMAGLRSSLSRLGSQ AEALPTSQTMGGQAETLLSQTGSRPNR GLFSLHRRWAAGQRRSLTS
4072	12123	A	5005	124	670	FQRTKLLNGPGDVETGTSITVPQKKWLH VISPIFVQSLTLPFLAKWGDRLQLLQIEL AAREVSDI*EETV*NETYLLLCRKTLD TLKWAHSIPSYARLFYI**FCSCLKLAFSQ FLLPA\DPYGVAVGGTVGHCLCTGLAVI GGRMIAQKISVRTVTIIGGIVFLAFAFSAL FISPD SGF
4073	12124	A	5006	3	273	AAAPGNRASAPRLLLLFLVPLLWAPAA VRAGPDEDLSHRNKEPPAPAQQLOPQPV AVQGPPEPARVEVSGPGWGERGCRAGC AEYQAPGL
4074	12125	A	5007	2	986	AAAAPGNRASAPRLLLLFLVPLLWAPA AVRAGP\DEDLSHRNKEPPAPAQQLOPQ PVAVQGPPEPARVEKIFTPA\APVHTNTE DPATQ\TNLGFHAFVAAISVIIVSELGD RTFVIAAIMAMRYNRPGPCWAGAMLCL/ AGLMTCLFS/VLFGYATTVIPRGLYILMF QPVLFAIFGIRMLREGLK\MSPD EGQEEL EEVQ\ELKKKDEEFQRTK\LLNG\PGDV ETGTSITVP\QKKW\LHFISPIFGQALTLTF LAEWGDRS*\LTTIVLAAREDPYGVAVG GTVGHCLCTGLAVIGGRMIAQKISVRTV TIIGGIVFLAFAFSALFISP
4075	12126	A	5008	2	439	
4076	12127	A	5009	3	366	RDSVVEILFEQDNKEQSVATLILDSLIQCP IDTRKQLAENLEMMFDVGKTQPLLKRA FSTEK*KFD*/TINLAS YQIFNQL*ANCTK YVGC FVIEDYSGSESILCLLALIYNSFDF VSLV
4077	12128	A	501	24	452	APSPDAMG/HSLWGKVNVEDAGGETLG RLLVVYPWTQRFDFSFGNLSASAIMGN PKVKAHGKVLTS LGDAIKHLDDLKGTF AQLSELHCDKLHVDPENFKLGNVLVTV LAIHFGKEFTPEVQASWQKMVTGVASA LSSRYH
4078	12129	A	5010	387	446	
4079	12130	B	5011	16	348	MVLDCGYRESLVLPYIEGIPVLNCWGAL PLGGKALHKELETQLLEQCTVDTSVAKE QSLPSVMGSVPEGVLEDIKARTCFVSDL KRGLKIQAAKFNIDGNNERPSPPPKC*
4080	12131	A	5012	1	595	MGCRPVGQAGLELLTSARTCFVSDLKR GLKIQAAKFNIDGNNECPIDTRKQLAENL VVIGGTSMLPGFLHRLLA EIRYLVEKPKY KKALGKTFRHTPPAKANCVAWLG/GK VFVGI*QVEYAMKA VENSSTAIGIRCKD GVVLGVRKISPF

4081	12132	A	5013	3	461	YIEDDMNPFQGNLEAEQRPKSKTFL*QG AAEQIKHILANFKNYQFFIGENMISDGM VLLLDYVKGWVCPYMIFFKVDGLDMD KMLNKCCKLFWIYHPVIHNWASALSSH TTTRDLRQNWTDCHPGALPFLDWGFYL GVGGHCFYEKPCPW
4082	12133	A	5014	3	325	RRVSSVTQAGVQWHGLGSLQPPPGFKL FCLSLPRSQDYRCMPRPANFC/IFLVETG FHPAH*DKLVSNS*PCGPPAPASQSAGIT GVT/HRAHLPCNV/C*LDLFHHHV
4083	12134	A	5015	1593	4449	PSGLGNTCIYRRGPHLPNSHRHAARGRIS ADRRFRHLGHRELHPAPCVPGRGEPHPA PCVPGHGHLPALCVPGRGQLHSVPCIP GRGEPH/RCTLCPRSWA/RCTLHPRDLRF NRIREIQGAFRRLRLNLTLLNNNQIKRI PSGAFEDLENLKYLKYLKNEIQSIDRQAF KGLASLEQLRLDSNTLHCDCEILWLADL LKTYAESGNAQAAAICEYPRRIQGRSVA TITPEELNCERPRITSEPQDADVTSG
4084	12135	A	5016	1	3174	
4085	12136	A	5017	1	4759	SRPWWLRASERPSAPSAMAYRSRGPR RCLLALVLFCAWGTAVVAQKPGAGCP SRCLCFRTTVRCMHLLLEAVPAVAPQTS ILDRLFRNIREIQGAFRRLRLNLTLLNN NQIKRIPSGAFEDLENLKYLKYLKNEIQSI DRQAFKGLASLEQLYLFHFNQIETLDPDSF QHLPKLERLFLHNNRITHLVPGTFNHLES MKRLRLDSNTLHCDCEILWLADLLKTY AESGNAQAAAICEYPRRIQGRSVATIT
4086	12137	A	5018	2	267	ADLSAEAL*TRREWDDIFKVLKTSS/LGQ PKILYPSKLSLINEASSSSSSSSSS/REFTT RLVL*EMLKGILHMEAQQGYLPS*KHTK V
4087	12138	A	5019	1	164	TRVNENQIESKAAYALFYKRQDVARLL SPAGS/SGAPASPACSSPPSSEFMDVN
4088	12139	A	502	38	557	APSPDAMGHFTEEDKATITSLWGKVN VDAGGETLGRLLVVPWTQRFDAFGN LSSAFCHPWATPKVKAHGKVKLTSLGD AIKHLADDLKGTFAQA*SETALVTKLHV GS*RTFKLPGEMLLGDPLGNPIFGKRISP LEVGRLSWAERWVTWSWPVALVLPRLP LKLNC
4089	12140	A	5020	1	712	EILIIHLKRFSYTKFSREKLDLVEFPISG ARERMAGGRQGKEGVYQY*PSPHPQDL DFSEFVIQPNESNPELYKYDLIAVSNHY GGMRDGHCMCQAVGGACPGGSGQGGD QDLPSE*LGM*ASGEGSSVVGRK*TRSEI WTLSEEARKGRRG*LSFPFR/TTFACNKD SGQWHYFDDNSVSPVNENQIESKAAYV LFYQRQDVARLLSPAGSSGAPASPACS SPPSSEFMDVN
4090	12141	A	5021	3	3090	IPLLQLLLRRLWRRHGRWTEPREPQHEE LPLGDSQWRQIENGESGRERPLRAGESW FLVEKHWHYKWEAYVQGGDQDSSIFPG CINNATLQDEINWRLKEGLVEGEDYVL LPAWHYLVSWYGLEHGQPPIERKVE LPNIQKVEVYPVELLLVRHNDLGKSHTV QFSHTDSIGLVLRITARERFLVEPQEDTRL WAKNSEGLDRLYDTHITVLDAALETGQ LIIMETRKKDGTWPSAQLHVMNNMSE EDED
4091	12142	A	5022	1	1584	
4092	12143	A	5023	1	3519	
4093	12144	A	5024	3	673	
4094	12145	A	5025	3	2383	
4095	12146	A	5026	2	2348	
4096	12147	A	5027	1	7338	

4097	12148	A	5028	2	7106	KSKRQAQQMVQPQSPVAVSQSKPGCYD NGKHYQINQQWERTYLGNVLVCTCYGG SRGFNCESEKPEAEETCFDKYTGNTRYVG DTERPKDSMIWDCTCIGAGRGRISCTIA NRCHEGGQSYKIGDTWRRPHETGGYML ECVCLGNGKGEWTCPIAEKCFDHAAG TSYVVGETWEKPYQGWMMVDCTCLGE GSGRITCTSRNRCNDQDPRASYRIGDPW SNKVHRGNLLQCICTGNARGEWK CERH TSVQTTSS
4098	12149	A	5029	1	389	
4099	12150	A	503	318	449	ERKKKKMATVQKGM/PHKYHGHKTGS YNVIQHAVGNAVTRNRTRGS
4100	12151	A	5030	2	554	ADALGRPTRPASQSRCTRSQSVGPSGFG GGHRGE/SGRAYVWQPPYGSSE/HASGL RYWSRRLRPAAGSFAAVCSRSVASKTPV GFIGLGNMGNPMAKNLMKHGYPLIYD VFPDACEFQDAGEQVSSPADVAEKA DRIITMLPTSINAIEAYSGANGILKKVKK GSLIDSSTIDPAVSKELA
4101	12152	A	5031	1	1123	MGNPMAKNLMKHGYPLIYDVFPDACK EFQDAGEQLCPNLDVNHFPVQRLHAAD TPWPISHLLAASVIGCCDIACLFSGRVSIS SLCVTISSQADEVRAKENKPIQHPTKIA EMLVVSSPADVAEKADRIITMLPTSINAI EAYSGANGILKKVKKGSLIDSSTIDPAV SKELAKEVEKMGAVFMDAPVSGG VGA ARSGNLTVMVGGVEDEFAAAQELLGC MGSNVVYCGAVGTGQAAKICNNMLLAI SMIGTAEAMNLGIK/S*GFDPKLLAKILN MSS\GRCWSK*HFINPVPGVMDGVPSA N*LFRVDFGTTLHWLKDGLAQDSATST KSPILLGSLAHQIYRMMCAKGYSKKDFS SVFQFLREEETF
4102	12153	B	5032	13	441	MEGVEEKKKEVPAVPETLKKKRRNFAE LKIKRLRKKFAQKMLRKARRKLIYEKAK HYHKEYRQMYRTEIRMARMARKAGNF YVPAEPKLAFVIRXRGINGVSPKVRKVL QLRLRQIFNGTFVKLNKASINMLRDCR AIYCMG*
4103	12154	A	5033	1	775	RRVPAVPETLKKKRRNFAELKIKRIARK KFAQQMLARKARWKLIYEKAKHYHKEY RQMYRT*NFEWARMGKKLANFYVPA EPQIWRVIRIRGINGVSPKGSERFFQLL RLRQIFNGNLL*KLNQGFRFNMAEDF*S PYIAMGGTPNLKVSKMN*SYKRGWLAK SNKKRVALTDNALIARSLGKIRHILawe DLIHEIYTV\GKRFK\EANNFLWPFKLSFS TKVEMKKKTTHFVEGGDAGNR\EDQIN RLIRRMN
4104	12155	A	5034	193	384	
4105	12156	A	5035	96	1636	ARSPAMAPLRPLLILALLAWVALADQES CKGRCTEGFNVDKKCQDELCSYYQSC CTDYTAECKPQVTRGDVFTMPEDYTV YERLGEEKNNATVHEQVGGPSLTSDLQA QSKGNPEQTPVLKPEEEAPAEVVGASKP EGIDSRPETLHPGRPOPPAEELCSGKPF DAFTDLKNGSLFAFRGQYCYELDEKAV RPGVYPKLIRDVWGIEGPIIDAAFTIRINLF RGRPYLFKG*QYW/RAFEDGVLPWIY PRNISWTAFDGHSPGQTWD\AALGLPCP LAYSGRERVYFFQRGKQYW/ESYQFPG TSPVQEECEGSSL\SAVF\EHFAMM\QRDS W\EDIF\ELLF\WGAERSGWVTR\QPQFHL AGEW\HGVP\G\QVDAAMG\GRILHLQG MATRPLLWPKKK\RFH\RNK\GYRS\Q RAHSRGR*PETPRR\SRAMWLSFVLPS EESNLGA\NNYDDYRMDLALCLPTCEPI QECFFSFSGDKYYRVNLRTRRVDTVDP

						YPRSIAQYWLGPAPGHL
4106	12157	C	5036	1	300	MRSFGQLTLCPRNGTVTGKWRGSHVVG LLTTLNFGDGPDRNKTRTFQATVLGSQM GLKGGAGSVWLQAAGLGLLPASLLWPS LLCHCYVLPPAPGVPLV*
4107	12158	A	5037	359	1229	MPQPPTLGQEMTGPSQPWTGKGGLPGP* QLRAKAQEVDShLGRKKIKQQNRSKSC
4108	12159	A	5038	2	311	VRWNSAAPLVTSRGAPASARPRGQALP GGSAPSAPHGQLPGRAQAPVSGPPPTS GLCHFDPAAPWP/PGLGLGMLPPHPQDW PAQP*HPPGLGLFFEIFSAS
4109	12160	A	5039	310	415	SQYFGTLRRVDHLRSGVRDQPGQLGKTP S*PQVIHPPQCPKVLGLQYYHFLFLRRS L/DSVAQAGVQWRDLGSLQRPPPGFTPF SCLSLPSSWDYRRPPRLANFFVFSVETG FTVSARMVIS*PRDPPASASQAGDTG VSQAPV
4110	12161	A	504	1	467	DHSSSPAREQNWMEFEDELTEVGFR WVITNSSELKKHVLTCCKEAKNLEKRLG ELLTRITSLEKNINDLMELKNTARELHEA YTSINSWINQAEERLSEIEDQLNEIKRED KITEKMKNSTTVRVAASMQSKLLQGVA EEGPLRLTRSASFSA
4111	12162	A	5040	1	114	ARAEMLIVQYILPRLTHCAIFTILFIFSLT *VMLLS
4112	12163	A	5041	335	477	TPASLKIPVE**NTLLAKMVIS*PRDLPA SASQSAGITGVSHRARC
4113	12164	A	5042	135	804	GIDTILTLNQN*SLKTRQ*FTLIF/IFFFL RWSLALSPRPDCGLQWRDLGSLQAPLP FTPFSCSLPSSWDYRCPPRPANFFCNFF FSRDGGFTVLARMVIS*PQ/CDPPTLAS QRAGVTGLSHCTRLFFF*WMESPSTQA GIQWHDLGSLQPMPPQFR*FSWLSLPSSQ DYRCMPPCQAN/CIFSRDEVSPC*PGWS GSPDLVIHLPWPPKVLGLHA
4114	12165	A	5043	63	361	
4115	12166	A	5044	151	384	
4116	12167	B	5045	385	479	MAGAFRRRFASEVRAQGLESLEHGLRC AGSLRGGQSLPTTMWSPVKVGF*
4117	12168	A	5046	3	698	VFFFFFFSGCTRGPLFESDFHRAPHRCGQG LAAP*AAGAPQPRAPGETRGPEPAHWR SASGDKPPGQAAPPALVPGEPSWDS PRGHRCSQATLPRVLAGPLQP*LS*LSL* DPPELRSL*PPL*LRL**SLEPP*PPLDS NRFP*PRSPPLENPRPRPRPRKPRPP AEPPTYTESVSDDLPAWSTRISVHLQTS HSWPSWASLASSMFFKVTKPNRELWSS
4118	12169	A	5047	138	550	FCCCFTSSEHSLAYGSCSPRRETVLCAQ QNPSETQAAPLAS\YMWK*PCNSRLKGP GPGLGEGWPES\RM TSGVTVPGGTSPGT RAGGS\PCPGGLSPEALRQ*GAGSGPRVS PGA/PGCGAPAAAYGAASPCPQRCAL

4119	12170	A	5048	2	555	FFFFFLGAHVALYSNPTFTGLHIVVGKD WPPP*AAGAPQPRAPGETRGPEPAPHWR SASGDKPPGASGCLQLLFQGEVPPGDS*P QRSSLALRPPFPRVLGPFPQPAKAKQR YSQRPPQGSQALAPP/GPPRKQPQLRKVS G*SGGCDLRLRHRPACGRVCTLAQLEP ATRMGWSYVQCGL
4120	12171	A	5049	1246	1379	RCLFILSFTGRRTHTP*PPLPLRTGFPP* PRSPPPSREPTGP/RPRPPREESPGPRQ*PP RVPHGIGLSDDLPAWSYSGS/GRPSTGLPI /PWPSWHP*RRQCSQR*QTOIPEISGSPCL SQPLQRSVRTLRPAPATA/PLVSKLSPP TKSLPSSDAMRPLSRAGP*RKQEDSAPQ DPEPPRNRGPGN
4121	12172	A	505	1	1140	
4122	12173	A	5050	207	251	
4123	12174	A	5051	335	419	TFDFPNWRSYFSMSNWITSLPTLLSSWD YRHVPLYPKICIFSRDRVLPYWP*SHD FTLFVSMITLTLQYKMTKLDNYLETIYY
4124	12175	A	5052	68	399	WELLIYFSGHTCSNLSPLLSLSTFFFF*DS LAVSAPGVQ\WHDLCSLARPLPRFKRFW CLSLLSGWD\YRHVP\QYPAKICIFSRDRV LPILAKASRNVSFLTNLMLGGFS
4125	12176	A	5053	2	322	AAAAFFFF*DGACSVTRLECSGTITAHCN FRHLGSSNFPASTSRVVEITGTCHHT*LIF VFLVETGFHHVGQAGLELLT*VIHPPQS TKVLGLQVVSHCTRPLSDF
4126	12177	A	5054	16	357	TITIGQNFFFFFLEMGSQSVARLECSGMS AHCNLLGSSNLPTSTS*VAGTTGVCA TIPSYFYNKISM*NQSLPMLPSLGLLELLG LRPVFLPRPPKVLGITRHEPPHSALK
4127	12178	A	5055	2	346	LRWSL/DSVAQGGVQWHDGSLQPPPPG FKRLSGLSLMSSWDYRRPPRLANFLHF **RRSFTMLARMVLIS*PHDPPASASQSA GITGVSDHAQSQIFLKLQMTKSMGFKTK FLN
4128	12179	A	5056	3	401	FFFWRQSLTLVTQAGVQ*LDHGSLOPPL PGPKGFSHLSPPSSWDHKKHAPPHLANFF L*RHGFTM/RLVLTSLPQ/CDPPAAASQS AGITGVSHCAQPVIFCKLDFSSTDIFTPS NLQPRGFWDLTAPQGEIVST
4129	12180	A	5057	142	250	PPTGSLTTPPLWDPQFASLFNGTL*WERE *PLPQNV
4130	12181	A	5058	2	775	RCNSAQQQMTSSQKALMLELKSLOEEP VEGFRITLVDESPLYNWEVAIFGPPNTLY EGGYFKAHIKFPIDYPYSPPTFRFLTGM WHPNIYEEWEMYGISILHPPVDDPQS LPSEWNPQTQCEGLILLRC*SHWLNEP QHLSPQPMDSASVMFRKWERQ*REKTK EYGLKFIRETKFSAT*GPKAGKGWGVG SPTNPGREYCIKTEVPNRNDEQVQSLLYD ELGMMTDIDDER*GRRKDAD\CYDDDEF WGMRKP
4131	12182	A	5059	1	571	ALGKAGYID/KYVTAMGIVAFVFFRSGK YNLDFRSRNDP/ARHI/TPEQLVALYKSF REKH*VFPD*GLVQRTLSLVCLKN/ SFDCCDDREVWKKFTANACLQEAGNDLT V\NLRHIAEAVDENS CNFLQLTVD*ACK LIQSNW*GIMVSHYSLT*NTFIALVKHCT G*/INTGAPC*SEPLARYKELSF
4132	12183	A	506	1	2640	
4133	12184	A	5060	32	534	GRERPLSPYMETLYRVFPFLVLECPNLK LKKPPWLHMPsAMTVYALVVVSYFLIT GGIYDVIVEPPSVGSMTDEHGHQRPVAF LGLQSKMDNNGKGLCIQAS*FTMGGF RFS*ILDPIECTKYPKTS\DSFFCSIGISSV VLEFFPWARSNSMRNGNCPGLI

4134	12185	A	5061	1	328	FLKRQRFGFLVAQAGL*WHNLGSLQPLPP GFK*FSCLSLSSWDYRHLPPHPNLLF LVETGFYHFGQAGLKLTD\SGDPPALAS QSAGIIGVSHRAGPGLCTFSNHI
4135	12186	A	5062	2	687	GRVGFNVWRDRNDTNLIPNGSSITVNQT NKRDYVSKYINYIFNDSVKAVYEEFRRG FYKMCDEDIKLFHPEELKDVMLGNTD YDWENIEKNARYEPGYNSSHTIVMFW KAFHKLTLEKKKKFLVFLTGTDRLOMK DLNNMKITFCPESWNERDPIRALTC/YP VSLPSPKYSYNGNS*KKRFKKPINNNR GIWLTSLPCPNLILLLSLLLLLLLLFLY FVLF
4136	12187	A	5063	1	525	ISHDAIAQESKRYWQNLEANVPGAQVLG NQIMPGFLNMKIKFVCRPQCPEKRSKIE PDKNRKYCSAKARHSWTKDRRAMRV MSY*RRKKWMNIRPLPTKKQMPLOFDLC NHASGKKCQYVGNCSEFAHSPEREVWT YMKENGIQDMEQFYELWLKSQKNEKSE DIASQSNKEN
4137	12188	A	5064	735	1517	SYSYFIQLCNHIASGKKCQYVGNCSEFA HSPEREVWTYMKENGIQDMEQFYELW AQESKK*KK*RHRPVSPNKGKVENQIH MANRIMAGRLQWDFSLAGMCGGKTGN SEKQWQGHISSEKHKEKVFHTE\TDQYC WQHRFPTGYFSICDRYMNGH/AAQEGNS CK/CLHMGNARTFMEWGRKGRRLPLKV EASTKHRKDHLIGPK\DNDFGKIYSFLFK DLN*YAGFYGMIPNQSIDQKNLKCSEAH SRGAARFPACIGVYRSS
4138	12189	A	5065	237	381	LHQPTTQTLAFTSNLRGR*RSAALPDAL DSSKVSEMHRLKRRGVN
4139	12190	A	5066	1	876	
4140	12191	A	5067	1	78	
4141	12192	A	5068	155	417	
4142	12193	B	5069	40	411	MQVTGVRTDSGALNITIHKLASSPHSKPF PIFQATFIFSDHIRCIAEQRLAKGRIPGKA HEDAENSCPPWTSQSSPLKSWGLDSAP PPPLSTCLSASTTRGAGAAATPQCSAPCL HRWTRCQ*
4143	12194	A	507	1	714	
4144	12195	A	5070	1	987	
4145	12196	A	5071	111	2187	DERRVGAADMFGRSRSWVGGGHGKTS RNIHSLDHLKYLHYVLTKN\TVTEQNRN LLVETIRSITELIWGDQNDSSVDFDFLEK NMFVFFLNILRQKSGRYVCVQLLQTLNI LFENISHETSLYYLLSNNYVNSIIVHKFDF SDEEIMAYYISFLKTL\SLKLN\NHTVHFFY NEHTNDFALYTEAIKFFNHPESMVRIAV RTITLNVYKVDNQAMLHYIRDKTAVPYF SNLVWFIGSHVIELDDCVQ\TDEEHRNRG KLSD\VAEHL\DHLHYLNDILINCEFLND V\TDHLLNRLFLPLYVYSLENQDKVFLII HHAPLVNSLAEVILNGDLSEMYAKTEQD IQRSSV\PTLSSLWQGSLSLNQLQSLGH KCSSHLCGAQA\AADSVTGEIPAIRSLEW LISAGSKARTFFFLKMLIGFWEKVDCY QRRQVLSTRLQEALPSNRLTDVA\AVHSS CMLFGGSTAPRGSWIGDPA\AVHLPPLGE LAEHLGSKGTT\TVTKHQPAKPSIRCFIK PTETLERSLEMNKHKGKRRVQKRPNYK NVGEEDEEKGPTE\DAQEDA\KAKGTE GGSKGIKTSGESE\IEMVIMERSKLSLA ASTSVQEQT\TDEEKSA\ATCSESTQWS RPFLDMVYHALD\SPDDDYHALFVLCCL YAMSHNK/GKSPEKEEGLSGTQSHPGKA GTFGKEGAEERKRAQV

4146	12197	A	5072	2	2774	RNLLVETIRSITEILIWGDQNDSSVDFFL EKNMFVFFLNILRQKSGRYVCVQLLQTL NILFENISHETSLYLLSNNYVNSIIVHKF DFSDEEIMAYYISFLKTLCLKLNNHTVHF FYNEHTNDFALYTEAIKFFNHPESMVRIA VRTITLNVYKVSLDNQAMLHYIRDKTAV PYFSNLVWFIGSHVIELDDCVQTDEEHR NRGKLSDLVAEHL DHLHYLNDILIINCE LNDVLT D HLLNRLFLPLYVYSLEN
4147	12198	A	5073	2	1802	
4148	12199	A	5074	546	802	GQAGRARQVRSPSSALITLPLA*QKH G/ISRWVVGDENYGEGS'SREHAALPR HLGGRAITKSFARIHGELESVPRPSSHP
4149	12200	A	5075	3	2380	SLSVHKMAPYSLLVTRLQKALGVRQYH VASVLCQRAK VAMTHFEPNEYIHYDLLE KNINIVRKRLNRPLTSEKIVYGHLDPA SQEIERGKSYLRLPDRVAMQDATAQM AMLQFISSGLSKVAVPSTIHCDHLEAQV GDEKDLRAKDINQEVYNFLATAGDKY GVGFWSPGSGIHHQILENYAYPGVLLIGT DSHTPNGGGLGGICIGVGGADAVDMA GIPWELKCPKVIGVKLTGSLSGWTS PKD VILKVAGILTVKGGTGAIVEYHGPVDS MSCTGMATICNMGAIEGATTSVPYNHR MKKYLSTGREDIANLADEFKDHLVPDP GCHYDQLEINLSELKPHINGPFTPDLAH PVAEVGKVAEKEGWPLDIRVGLIGSCTN SSYEDMGRSAAVAKQALAHGLKCKSQF TITPGSEQIRATIERDGYRQILRDLGGIVL ANACGPCIGQWDRKDIKKGEKNTIVTSY NRNFTGRNDANPETHAFVTSPEIVTALAI AGTLKFPETNYLTGTDGKKFRLEAPDA DELPKGEFDPGQDTYQHPPKDSGQHVD VSPTSQRLQLLEPFDKWDGKDLEDLQILI KVKGKCTTDHISAAGPWLKFRGHLDNIS NNLLIGAINIENGKANSVGNAVTQEFGP VPDARYYKKHGIRWVVGDENYGEGS SREHAALPRHLGGRAITKSFARDPRD EPGRKQGLLPFGPFA/DPADYNKIHPVD KLTIQGLKDFTPG/RSPLKCIKHPNGTQ\ ETILLNHTFNETQIEWFRAGSALQOK*RN LQQ
4150	12201	A	5076	3	203	
4151	12202	A	5077	52	393	EASAWPAPRGSWMVVAEDPACSVTLCP ESLSGYLPGGSGQGPSAAGTSPSLPPRS LPGLEKLRSPSGRESRLSSAPRAPSIAK AQLQCQAEEDPEIVNNV*FSSVTCLSL
4152	12203	C	5078	121	396	MALPGRLP HRKLAGGTLEAPWPGIPSGA VRRHQPOPPTTLXXWLGVKKPLRKRIE AKFLCAEGPEHIRQGSAAVPGGGGRSRN CEQCLI**
4153	12204	A	5079	3	755	FVVDFDRPHETRVLQVSCGRAHSLVLT REGVFSMGNN SYQCGRKV VENEIYSES HTVHRMHDFDQVDQVACGQDHSFLT DKGKVYSCGWGADGQTGLGHYNITSSP TKLGGDLAGVNVIQVATYGDCCLAVSA DGWDFGWGNLEYLQLA/APVTDSTQVN VPRCLHFSGVGKVRQ/CLHAVARAVQC* TGEHVFVWGYGILGKGPNLGKCPSL KMIPPTLFGFDGFQPRNPGFPAFCGQIA TLLH
4154	12205	B	508	1	546	MKQPNRKRKLNMDSKERLDQDGRVLK MSFFVFCCVVSSESEHEETQDLMCSELF WVLLHMWSLDQQHQHLEDHNSSPAR GQHWMESEDELTEVGFRRWVITNSSEL KEHALTQCKEAKNLEKRLDKLLTRIISLE KNINELMELKSTARELREAYTSINSQIDQ VEKGYQRLKINLMK*

4155	12206	A	5082	7	279	GQVCIAETGVQWYHLSSLQPLPGFKRF LCSASRRAPPCPANF*FLVEMGFHHVG QAGLQLLTLDGPPTSASQSAGITGVSHH ALPAWL
4156	12207	A	5083	5164	5586	FTAALNSWVIKLSSCFSLSSWDCMYMP PCPASFFFFFLR*SFALVAQAGVQWCDL GSLPPPSGFERFSCGLPSSWDYRRPP/P TPG*FFFFVFLVEMGFHYVGQAGLELLT SSDLPTSASQSAGITGVSHHALPSLYK
4157	12208	A	5084	2	5438	
4158	12209	A	5085	1	4294	WAVFDGNYYYYLPWAHTKPVVTLTSY WEDISHRLDAVNALLAMAERLQTNIEAL KSGIQGKIPANQLAELWLKLIDEVIEDTR YTLPLTEGKANVTVLDTQIRKLRSRSLSQ IHEAAVRMRSEATDVKSTLAEIEDWLDK LMQLTEEPQNSMPDIIIWMIRGEKRLAY ARIPAHQVLYSTGENASGKYCGKTQTI FLKYPQEKNNGPKVPVELRVNIWGLLSA VEKKFNSFAEGTFTVFAEMYENQALMF GKWWG
4159	12210	A	5086	444	797	FHSLSPGASKPMLEPLDWEPCCKLNDV KRAKSVPLTRHLH*VYLLMLSLPPPTPQ QAPVYDVPLPVSKCSHCQFPLWF*FAFL* WPVMMSVFSCVCWLHKCLLLRSVCSYP LPTF
4160	12211	A	5087	489	611	SPCPCLCPEWYCLGFLGFLWFLV*HLSL *SILNYFLYKV
4161	12212	A	5088	1	336	
4162	12213	A	5089	1	1581	
4163	12214	A	509	1	732	
4164	12215	A	5090	235	583	
4165	12216	A	5091	1	430	MGKDFMTKTPKAMATKAKIDKWDVIKL KSFACTAKETTIRVNRQPTWEKFFATYSS DKGLISRIHKELTQIYKKKTNNPIKKWAK DMNRHFSKEDIYAANKHMEKCPSSLAIK EMQIKTTMRYHLMFVRMAIIKKSGKNR WELNNENTWTQEGEHHTLGPVVGWGK GGGKALGDTPNVNDELMAFSTTRPTFFP RSDPTTTRPMAVPPHEEKDDHLETHRPL RPRITLPHAPDGRWLLTLTHTSTPGKT GLRITYRPLSRTEKVQTAGARPSHPHSS AAFTTWAKGPTGRRPGHMRSESATQKE VTMSPCTALRGQKADSKAHGQQTWA ARGMHTESGTCKASRGFPSLLSPRTRIPK VFVAERKGLRGFVLSLTPFSCIQKHWE QTVPMSPLEDVSE*TGNLQNGRNFLQP THLTKG*YPESTKNSHKFTRKKQTTPSKS GQRI*TDTSQKKTFMQPTNTWKNABHH WPSKKCKSKPQ*DTT*CQLEWQSLKSQE KTGGN
4166	12217	A	5092	65	163	LEASKFSLVPTGPSV*CSPPCVHVFSLFNS HL
4167	12218	A	5093	175	495	PQFFGNVLGHLLYSFLGPFQCDENIRYLS *CSPSSCPPCTNRPQYVMFSLCPCVLMV QLPPMSENMWCLVFCSCDSLRLMMVSS FIHVPRFCYCNLVVYFEVRCH
4168	12219	A	5094	67	351	LHTRKSVFNCVKLFLHCISVVLINQLYDR PWCVMFPITLCPVSFIVQFPPMSENMWCL VFCPCDTLLRMMVSSFIHVPPERHKSXH HDTRG*CSNM
4169	12220	A	5095	2	431	QVFGSIVRIHQGEWFPLYGILLPRVQNC LTN*LDLCWSQHQTPHVLTHRWELNNE NTWTQEGEHHTLGPVVGWEGGGIALG DIPNVNDKLMGAHQHDFLVSPKITGIV LSISQVRVPFIDHRRKARYSADLTSLIAI PG
4170	12221	A	5096	75	173	

4171	12222	A	5097	1	2349	MLED RDGE EDEGDE DRLD NAVRGPGPK GPVGT VSEAQLARRLTKVKNSRRMLSN KPQDFQVATAWRSASLFNLYIAHLLAIA VMFQW TYSNGQWLNRPALNDFIPTAAL GLYNPTPVPI LGMTLGGSTQLVAPGIAQS CPGLVLAILIGEGNEATPEDPKDPTCWER LGNHPPSVLQIRVRVIEGRQLSGNNIRPV VKVHVCGQTHRTRIKRGNNPFFDEV LW LQPGDHTPASYSRAGLNDYHNCCCKNM QGVVLTHK WELNNENTWTQDGEHHTL GPVVGLWPQCLTDPEGFG EETWASTQPF AGVTCKALYLLHFTPTAIGSHCLDHCF S DFLGKKNYRKEKVGLRDLGICRRPG EGR LGKHILRNVLGDDAEAE LIGTATV ALKD LTGDQSRSLPYKLISLLNEKGQDTGIYNC ELENVAEFEGLTDFSDTFKL YRGKSDEN EDPSVVGEFGKGLQMWVDVFPKSLGPP GPPFNITPRKAKKYLRV IWN TKD VILA EKSITGEEMSDIYVKG WIPGNEENKQKT DVHYRSLDGE GNFNWR FVFPFDYLP AE QLCIVAKKEHFWSIDQTEFRIPPR LIIQIW VNDKFSLDDYLGFP RNLT LRHTIHLQ KSPGGNC/RGLDMISGTFKAMNPLKAKT AFLFEQKF MN*WWPCYAEKD GARVMA GK VEMTLEILNEKEADERPAGKGRDEPN MNP KLDLPNR PETSFLWFTNPCKT MKF IVWRGFWWV IIGALLFLILL L FVGRAPLT LLPNYFVQWKIVKPNVLTGKG GFISRVIQ Q
4172	12223	A	5098	1	296	RRSAPSTSLRTTCVSSCCWPRRRAPSMTP GAGYPSGSSAGP/PTHSP*PPWTRPS/SAQ RYLRK*QPQPGPALLPLLPAPPKAWLS GLGPVVLDSGPQ
4173	12224	A	5099	26	253	RWLSPWPL/SCPQPGWTARNPQPTRELPP HPQAGKPFLPVVPFQPTSPSLLPVMGGL SRPGSFSPVSVASLRCCTH
4174	12225	A	51	702	1107	LQERYSDPGLLASFHGESSQDRLDTVQQ EK*NAGSASPPGPPHPNTCQPRDGRGFT RLPCHRMWGTPGIRWK MPLQ*AAGP/PH AA*WPGSLMPPCL*PSASAWTRQ**PG SLPTLTSPG*DPGAHILLWRKQSY
4175	12226	A	510	2	1601	
4176	12227	A	5100	274	2462	RRSAPSTSLRTTCVSSCCWPRRRAPSMTP GAGYPSGSSAAHRC DGWATTHSP*PP WTRPSWRSAYLRK*QPQPGPTQHCCPLP SQPPAKGVAVRAGPCSAGLSRATIGTGQ G/PG/TSPGHTWGQQR YHEATFWG*LLD CLVFKSEKPR*LILLITMF*STSVSLTML SLD*ARGREPAHPTPGPSPAATN*PGAL LPTVQIS*KCSSLQAPERASPPPCSPR/PPA TASFRPSLSDPGPS/APSFGKPSPHLKPN S NIFIFLPYQLLSHL*VAQSMATPCPQPGW TARNPQPTRELPPHPQAGKPLLVPVPFQ PTSPSLLPVMGGLSRPGS/SLPSQWLL*G AVHAR*PVPFSILPRGTELTWTPSAKGPM GWAAGLAASGGCLHSSR*PTLVFRGWW EHIPVPLPHNRCGDSGRP*QGSSMVVR DSGEL*GLGDPGLPGFENKPCPF*AEIL KWNARLARNAVLTQNAPSPCPYWTWP CLMP SKDPYPEAYPPYVLREAECPLOAV MGPEAPPAWPCSPVG/SVTVFP/TSVSRSP PPKKLTHCE*PWAS/SPNLLVPQFPHLEK MGPP LASSRAAHAPFSP/SPHPALGR LM PLPQWALWEPTGSPALTPEASEACVMS QLSSR*GPRVLCWWGWMPSFLYLFHR KSPAGAEMQSGGLPSP*PVLL*GPEAGP GPVAAEPPSQEVKLVPSGRLPVRGLSPSF QSNRRGLQSPVRQTGFPPKVKPCV

4177	12228	A	5101	1	545	DFPRQSS*NLNITGKCGISP/GTPLNAAHF VPGQY/VDVTTKTMCKGFQGVMMKRWG LKAQP\ATHGQSKSTGRPGA\ VATGDIGR VWPGTKMPGKWGNIYRQEYGLKVWRI NTKPII\YVKWSGPGP*KWLR*RSKDFK LPA\FKDLGKNLPIPIYFFLEGDEGGTAQ KIGMDEKRVSSPGAPSN
4178	12229	A	5102	2	202	LFGYLPK*VDNMSTKKPCTWIFTLALCIT ARTWKQPRCPLVGKWI/QLCCI*KMKYY SDFKKSCQAMK
4179	12230	A	5103	1	422	FFFFFLRWSFTLVA*A*VQWRDLNSLQPP PPRFKRFSCSLSPSSWDYRRASPCSANFL DF/HFLVETRFFHHVCQAGLELLMSGDLP ASASQSAGIIGVSHCARPLASLFLIHIFNK CISGVRLCSRFPWRYSAQAQSLDLAY
4180	12231	A	5104	2	375	DGSCFVAQTGVQWHNLGSLQPLPRFK* FSCLSLPSSWDLRQV\PPHPANF*FLV*P GFHDVGQAGLELLTSGDPTLATRSVGIT GVSHCARPGSIYKQRLDKKLRSSVAART NRCPLWSLPI
4181	12232	A	5105	1	293	RRLFFSFLRQSLVLVIQAGVQWGDIGSL RPLPAGFKRFSCSLSPSG*DYRHGPPRLA NFWIFTREGM/FAMLARLVNS*PQGDPP ASASQSSGDYRA
4182	12233	A	5106	3	305	ETETCSVAQAGVQWPILSSLQPLPRLKR FSCLSLNSWDYRCLPPHAANF*FLVET GFPHVGQSGLKLLTSGDLPTSGSQSAGIT GVSHCTWAGKSYIF
4183	12234	A	5107	1	485	ARRDAAEVFLVSDPSGRMVKFSLQRLN SHCFAREKEGDKPSATHASRTMPLSLH SRGGSSE/SDDRNLNVEELTSNDKTRIL NVQSRLTDAKRINWRTVLSGGSLYIEIPG GALPEGSKDSFAVLEFAEEQLRADHVFI CFHKNREDRAALLRTFSFL
4184	12235	A	5108	1	506	FGVSVYLHDYNMRTNPGEMSESTVPTH PADKGWPQGPDAQPRGGPTPPPLPKTLS RTCRPMKQASGLLGTRGCPGLTISKPKK LKVRSKAAAGEKPSEPLPTRTPRPHPPP QGDRACLRMKGRRRHPHAPYCRRYGS PTSVLAVLVEANEDMVGSQLLSELQEN WQAVLAPLGQRAARDLDVEAAATQHCS PN\WRTVLSGGSLYIEIPGGALPEGSKDS LPVLEFAEEQLRADHVFI\CFHKNREDR GR*PVSPA\GCVGVPAPPLHSQ\AGTVS LRGWGV\RAGGSGRQGF*RL\PR\AALLR TFSFLGFEIVRPGHPLV\PKRPD\ACFMAY TFERESSGEEEE
4185	12236	A	5109	1	996	MVKSSLQRLN\SHCFAREKEGDKPSATH ASRTMPLLSLH\SRGGSSES\ESV\WMARD APGEAAH/CRRHPG/PSRGP\PGSWGWR TPTARQRP\GKTPAASREDASRFRGRGCQ LRLWGS/HAGSRSSFPDCVPRGGRRSAP DREDDRLN\NVRGN*RSNRQDGGFFNVQ\ SRLATEAQ\TALNWRNNC*SGGSLFNIKPA GGRRWPEGSKGQLLQFLLEFAE/EKQLR ADHV\FC\SHKNRE\DRSCLAPKLSAFLG LKILRPGHPLV\PKETPDACFMALQRSRE SLPGEEEEVGARLRGWAIPPPWGH\PFVS RVGRNRRLAHLAWVCPHV\VIVQ\NAHS Q
4186	12237	A	511	1374	2220	QAENSHININKDVHSETPSEGHQ\RKRP KDHS\SPAREQ\NWMEN\EFDELTEVGFR RWVITN\SELKKH\VL\TQCKEAKNLEKRL GELLTRITSLEKNINDLMELKNTARELHE AYTSIN\SWINQAEERLSEIEDQLNEIKRE DKITEKMKNSTTVLVSTWGSQLEQNNLP HIISPLFHSTHDLNISFYGGCLLQACSSKL LQGLAEGGPLRLTR\SASFFAAKLC\LT\KH FLPTMILIKSRK\TTPDTQPRRLYLLQGV

						VDQTSRKGPTALNIRQKTFAAAPPHR
4187	12238	A	5110	1	125	FFFEMESHSVIRLECSGVNSAYCNL/TLP GSSGSPASAPPPQVGGTTGTHHHAQLIFV FLVETGFHHVGGDGLDLL/NLVIRPPQPP KVLG*QAVLLPQHRPPK
4188	12239	A	5111	2	280	FFFFGDRVPLHSAAGVQWKNLGSQ PPAP/GLKPFSCSLPSS*DYRSLPPCPTHF CIFSREDEVSPSWPGWSPTPDLNMHPPRP KVLGIQV
4189	12240	A	5112	2	291	FLEMESHVAQAGVQWRDLGSLQPPPP GFKRFSCLSPSSWDYRRPQPRPA/NFFV FLVETGF/TILARLVSNS*PRDPPASASQS AGITGVTYRARP
4190	12241	A	5113	3	690	FFFFFLRQSL/DSVTQAEVQW/RRILGSLR P/LQLPGLK*CCCLSLSS*DYSYNPLPRL ANFF/VFCIF**RRGFTMLARLLSNS*PCD LPTSASQSAGITGVSH/HAPGLASPSLNN KVQSSVGAQRRHDEDNGSRA*VFFCFFF FKRFALVA*AGVQWRDLSSLQPLPLRFM *FSCSLPSS*DHRCVPPHPANFFVFI*RD. GVSPCQPG*SRSPDLAIRPPRPKVLGLQ A
4191	12242	A	5114	3	282	FFFETESHLSILSPRLECNGTISAHCNRL PGPRDCPASAS*VAGITGVCHHAWLIFV LVETGFHHVGGAGLELL/NLVIRLPQPPK VLGLQA
4192	12243	A	5115	3	198	LSLNWCILYIYICIYVV/CVVLFCCHSCLS NMGT*FFLAGLLLFRICLCLFIFYLL***L LFIMI
4193	12244	A	5116	1	854	MNKLFSILLGEKVDTPQNVLHNDPHARH SDDNGQNHLEGQMNFNADSSQFKDENT DIAEKLEEKVRILCWVMTGPQNLEKKA KHVKATWAQRCNKVLFMSSEENKDFPA VGLKTKEGRDQLYWKTIAFYVHEHY L*DADWFLKADDDTYVILDNLRWLLSK YDPEEPIYFGRRFKPYVKQGYMSGGAG YVLTREPLKRFVDALKTVKCTHS/SSIED LALGRCMEIMNVEAGDSRDTIGKGNFFH PFVPEHHFNLKGYLPRTFWYWNYNYY PPVEGPGLLL
4194	12245	A	5117	13	290	ECRRQRGVQ*CNHS*QQL*PPGLMQSSL LSSPGSSDYRQVLLHSAEF*VFNLVEMG SYYVVQAGLKFLASSDPPALTSQWARIT GMSHITRA
4195	12246	A	5118	1	595	MGIHHVGQASLELLTSGDLPASASQGRG VRLYYNEGRSSQSASVTALFLSSLPTVTS AMAGTRPPSARSHQTLQACRAQKTKTR MSSI*GTGAKHQASSPGKAPLSTSPYFW KPSLQTSPCSGSRSLWASLPSLAALFLC FWQDAT*RSSTTRSSLPSWPSRSTRALRL STS*PECAPSA*ASSKAGERSTGDRL
4196	12247	A	5119	3	496	FFFLRCSV/NSTAKAGVQCHNLSSHLPLP PGFKQFPCFSLPSS*DYGCAPHPANFYIP SRISQAWWRVPVIPATQEA/RQSFNFVAQ VGVQWHNLSSPQAFPAFGK*FSCSLPTS WDYRHMPPCPDNFCIFSRGGVSPYWPS WSRTLDIMIHIPPPNVLGLQA

4197	12248	B	512	1	765	MLAGQOREFPVGVGSADPALGAAGWP QRPQQARDLQLAMPEPPIPSMGSCAAGA SPTSTAPCSKAPSPIDHPRAAECRRRARD WQAAPPAAPVRDPLGEASRAPESVKDV CIYDIMFDGGAGRFAAATLTGISELPAPF EERKSWKPKRQAPGALV*
4198	12249	A	5120	3	329	ETVSHSVAQAGVHWHHVGSQQPPSPGS KQFSNLSLPGGWYRHPHPHPANFIFLV ETGSHYVAKADLQLLASNDPPTSASQHA GIIRSHCTRPRY*WSNKL*YKIT
4199	12250	A	5121	1	537	ERQSCSVARAGVQWHDLGSPQP/LPPRL KRFS/CLNLLSSWDYRRALPHPG*FLYF* *RQGFTMLVRL/VLNS*PCDPPTSASQSA GITGVSHRARPVLRF*QNYYYFETGSGS AAQAGMQWPIMAMQPQPPRLKQASNL SLLSSWDH\GMQPHPANTTVCKTERKQV FRMHLNNTNYREQ
4200	12251	A	5122	1	197	EAGSHSVAHAGEQWCDYGSQHQPV LKQFSLSLPSS*DYRCVPPCPANFLILM ISVSIRGSV
4201	12252	A	5123	809	1472	KTLLSCYLSKLWPVDYLRSSRLRRAA SSFGSWRFALQRTPHTRRLSRSSKAVQ TAFPRRSPSRHRCGSSSRATTTCRMSFL SSLTTCAQQLAGWVTLKRSIGLRKRSMS LMALKKWPCLMWKKRRSLPRYPQQRRT RGKKRSGSKIMIRRLNGQMGPRTVPAPA MKEVQI/TKLKKSKRRSCSHCSSKVCDS KS/VQEQGAP*VGGQPPPRG*SYAWC
4202	12253	A	5124	1	504	DSEPCSVAQAGEQ*RDLGSLQPLSLGLK QFSLCLPSSRDYRPPPCLANFCYF*YR WGFTTSARPV*NSWPCDPPTSASQSAGT TGVSHQARLLFFKAFKVWSGDSI*CVN EFNIISKISSFPHFTSTPQSCPIMHSQIKY K*F*DYP*CSKQAGGISISDTYY
4203	12254	A	5125	2	351	KQGHIMTYVLRPPFFFSRWSL/DSVSQAG VQWRVFGSLQAPPPGFLPFSCTG/RQPPS PANFFLYFLVETGFLF**RQGFTVLD RMV SIS*PRDPPALASQSAGITGVSPRTRQEGH S
4204	12255	A	5126	1	1047	MVSISWPRDLPASASQSAGITGLIGALVL SVGIYAEVER/HEI*NP*KCLPGSSHHHP PGRRHVHGLLHWCAGVPP*QPELLASL RLSRGYGLVLSWLEPRYEKMISGMYLG EIVRNILIDFTKKGFLFRGQISETLKTGIF ETKFLSQIESDRLALLQVRAILQQLGLNS TCDDSLVKTVCVVSRRAAQLCGAGM AAVVDKIRENRGLDRLNVTVGVDGTLV KLHPHFSRIMHQTVKELSPKCNVSFLLSE DGSKGGAALITAVGVRLRTEASS
4205	12256	A	5127	116	498	YNFALKSELKFKNQATVSLNKF FFFFLR WSLRPVAQAGVQWRDLGSLQ/PPPGLT PSSCLSLPSSWNRRRPPCPAKSFWIF/M* RRGFTVLARMVSIS*PRDLPASASQSAGI TGVSHRTRQEGHS
4206	12257	A	5128	3	490	GIYHTLRTGQEGRSIKQQRLLQRPLPYF FLFIFFSFLYMIEIKH*LSFYILLFAFNIVS* PFSYIFIFF/RF*DSVLLCGPGWSTVA*S*L TAASTQDQGDSPSTGPKVTDRCVCGHH T*ANFYIFCGGWGGLTILLRRIPNSWAQG IFPPWPPKVLGLQA
4207	12258	A	5129	423	495	
4208	12259	A	513	594	1300	LGASEPWQPRSQETPKHSWSPH/PANQS KEVPENPNYALKCTLVGHTAVSSVKFS PN/CENGLASSADRLLIHWGAYDGKYEK TLYGHNLISDVAVSSDSSLVSASDDK TLKLWDVRSGKCLKTLKGHSNYVFCCN FNPPSNLISGSFDETVKIWEVKTGKCLK TLAHSDPVSAVHFNCSGSLIVSGSYDGL CBIWDAASGOCIKTI VDDDDNPPVSEVKE

						CRIWDAASGQCLKTLVDDDNPPVSFVKF SPNGKYILTAT
4209	12260	C	5130	628	849	MCGSVYSTIWSLIASRREETIRVIVLYIQS PNINTRHISKRGINKGVNQFHKEDWNLL KRVCSHSGAEAGIFS*
4210	12261	A	5131	350	412	NFELKLSPYQKKSIVWGAAQVMPVAVG KPSSEWPPGSHMDNSQIRGNPVCIGK*FS CPSLQCSWDYRCMTPLANLFFFKLEGG FCHVAQTSCLKLGSSSPFILASRSTGITG MNHHA/RQLLN*SIRE*HSITHRLTHSRE KSCECNLYGKTLSSNFPPTKKKVSTGELP R
4211	12262	A	5132	3	189	HERKAQPAGEGRTHMTKSDSLPSFRVST LPLESHHPDPNTMGGASHRDRALSGTAT VRDTRGIDPAPVHASPTRNR\NEGRHVF KRFPDTLTDRSISIYTDHHSQIRTLRALS QL*TTPTQTPWAGPATGTGLSRGLPPYG TPEG
4212	12263	A	5133	32	800	FKTIKVRFLCIRVYSLCCKLLTYCDHFH SLDFEECAHLLKMEFPESQTKELCNMI LDCCAQQRTEYKFFGLLAGRFCMLKKE YMESFEGIFKEQYDTHRLETNKLNRVA KMFAHLLYTDSLPSVLECIKLSEETTS SSRIVFKIFQELCEYMGFL*/SLIARLKD GNLAPFF*RI\FPRDDPRITRVAISFFPSIA SGCLTYCPVSALSSIPLRPLVALLPIPIF HHDLLLELFRLPFFYNLTLVLPFV
4213	12264	A	5134	2	706	RCNSAQQQMTSSQKALMLELKSQEEP VEGFRITLVDESPLYNWEVAIFGPPNTLY EGGYFKAHIKFPIDYPYSPPY/TFRFLTKM WHPNIYENGDCISILHPPVDDPQSGEL PSERWNPQQCEGLILLRC*SHWLNBPQ HLSPQPMDSASVMFR\KWR\DSKGKDKKE YGLKFIRETKFSAT\KARRQEKGG*RF TTLGGNTCIKTEVP\RNDEQVQSLLYDEL GMMTDIDDER*GRRKAD\CYDD\DDSG E*GSPQPWAGIPASKLRPCNDEQVQSL LYDELGMMTDIDDER
4214	12265	A	5135	7	219	EGV*VSRDW*QWS/DIGSWRHSMTGSGD SLASAF*VSGGTGESHHKQLIAVNMVEM GSHRAGQAGNELSTL
4215	12266	A	5136	2	309	DGVSLLLSPRLQWHNLGLLQPPPP*FKGF SCLSLPGSWDYRHV/PPCLANFVFLVETG FRHVGQTGLELLTSGDPPASASQRAGIT GVSHRTWQKMYFLSQKYF
4216	12267	A	5137	1	309	SCLSLSSWDHRRVPAHPANFVFLVETG FHHVSQV/GLELLTSSNPPASASHSAGIT GVNHRAWLPGLNLR*KMIRRLRLLK NKFHSTILRKSETSNSCE
4217	12268	A	5138	2	625	TYGEMAKIVDVPTKQLRAPDPIDSMCH FCHNVSPCTRNGCVDMEHFVKVTHQI EDERERREKKLYFGYSLLGAHPILNQITG RMQRATEGRKEELFALYSAHDVTLSPVL SALGLSEARFPRFAARLIFELWQDREKPS *TF\VRILYNGVDVTFHTSFCQDHHKRSS KPMFPLENLVRFVKRDMFLALGGSCN YYDACHREGF
4218	12269	A	5139	167	688	
4219	12270	A	514	188	478	QRGVLLKTANVLVPEDLGREMRIFSVK TWKTFTCIFTGTNIHLFLFYFFETASLS EAQAGAQLGSLQPPPPGGSSDPASASPI AGITGACHH

4220	12271	A	5140	3	1230	QRDSYAREFTTTTVVSCCSAELQT/GEGAT ARNIFLSGFQVLEDTVLFPEGGGQDD RGTINDISVLRVTRRGEQADHFTQTPLDP GSQVLVRVDWERRFDHMQQHSQHLIT AVADHLFKLETTSWEVGRFRSAIELDTP SMTAEQVAIEQSVNEKIRDRLPVNVRE LSLDDPEVEQVSGRGLPDDHAGPIRVVN IEGVDSNMCCGTHVSNLSDLQVV*ILGT EKGKKNRTNLIFLSGNNRVLKWMERSHG TEKALTGLLKCGAEDHVEAVKKLQNST KILQKNNLKSAR/RT*AVHIAHSLKEQSR LGRCGHITQEGG*FRVHEYHCQ*RLGQR RPSLFLTCGR*ERWWTLLYWQGHRLW RPWGPWLRWEGKGAGKKGRFQGKA TKLSRRMEQAQALSPGLHQHAEC
4221	12272	A	5141	3	306	SRQWTLFADGQHS GPAAPCPCEV*RTG ALNPKTQFQ/LPSAPGPCVPVPHGASHP*T PQKLQPGNKSQMKPVKPGFPPSGAGGA WASL*PSSLPFDLQYLL
4222	12273	A	5142	1	306	FFFFFL*QSCSVAQAGVQWYDFGSQKP PPPRFERFSCNLNLPSS*DYRRPPLPAIFV FLVETGFHHIGQDSLKLASSDLPISASQS AGITGMSHCTWPV
4223	12274	A	5143	81	657	TAEKGGEETKSGELGRSQRITLSQVGATR GTSEEITLIVQMRDAGGSALCSGIGGGEK WSVLGVILKKDDRIVLAYCMGHEIKRGI EDDSKVFFFFFLEMKSCSVVQAGVQWH DLSSLQPALPRYK*FSCLSLPGSWDYRH VLLRLVNF*FLVEIGFHHVVQAGLKLIT SSDLPHSASRSAGITGVSHRARP
4224	12275	A	5144	3	494	ETEDLALSPQAGVHVAR/SLSSLQPPPPG VFKQILCLSLSSWDYRG/PCHPHPAKFL AF*VETGVSPSWARLFLNS*PRDPPASAS QSAGEPPRWASVCNSVKMLSSAFNWCV CRLHKEKWMRRQKTHVMIPHSNRCS RHFSRIPSSIETYNLRLHTLLAGRF
4225	12276	A	5145	3	123	ESGSHSLPKL*CSGAITAHCNLKLGS DPPTSASGVAGT
4226	12277	A	5146	3	292	RQRL/NSVTHSGVQWRNPGSLQPLPPGF KHFSCLSLSSWDYRHTPQCPAIFVFLV ETGFRHARLVNS*PHNLPVSASQ/SAWI TGLSHHARPCVSF
4227	12278	A	5147	2	303	FLGWSFTLVVQAGVQWRDLGSPHPLPP GFKQFFCLSLPSS*DYRHAPPHLANFVFL GEMDFLHAWQAGLELLTSGDPPTLASQ SAGITGVRHCSRVPSE
4228	12279	A	5148	2	613	PRVRTYRFGSVGHDTQLCLWDLTEDILF PHQPLSRARTHTNVMNATSPAGSNGNS VTPGNSVPPPLPRSNLPHSAVSNAAGSK SSVMDGAIASGVSKFATLSLHDKERKAP RERSQSRNHSMMGHNF*QEASDKLESS/SP KPKPDPAKTLGTPLCPRMEDVPLLEPLIC KKIAHERLTVLIFLEDICVTACQEGFICT WGRPG
4229	12280	A	5149	2	393	IGFQPQLTEFQVSLQDLEKLSGLVFFPHL DRTSDIRNICSVDTCLLDFQEFTLYLST RKIEGARSVLRLDKIMDHLKNV*NEPYD YPMRRYYKKLQELTAIDLSTHISQPSLL SYTCLISGATPPFT
4230	12281	A	515	355	612	SFSISGSFSASIALVCQLLAVKGSVFVVG GISYCPLNVFLDLQVAPEEDERKKRRR ERNKIAAAKCRNKKKEKTECLQKVSFA
4231	12282	A	5150	644	962	NASSLAWTVLLKLLVGFGAGQCMGNFF FCWGGAMESPSVAQAGVQWRNLGSLQ PPPPGFKRFSCLSPSSWDYRHVPPHPAN FCIFSRDGVSRCPGWS*TPDLR

4232	12283	A	5151	3	321	RRCLCAGYFKNVARRSCWRTFCTMDGR GSPVHHHPSSALHEQETKLEWIFHEVLV TTKVYARIVCPIRYEWRDLLPKLHEFN AHGFEQCGPT*SERRCKKEMDK
4233	12284	A	5152	237	602	LLITGRQYSLTFRRFYIHLRNKILNSGLG KPPLKLHFYTEAFFARNPDQMEFHSVAQ AGVQWHDLG*LQPLPAGFKQFFCLRFLS SWDYK\GTPPCLAGFCIFSRDEVSPRWGR WS*TPDLK
4234	12285	C	5153	166	417	
4235	12286	A	5154	282	1112	FLKRENLLKNVCRNKLDLRPNRASPTGS QEWROHGVQSEVQFVHSLKPGPPADS CRTAA/GDPGGTETADPGHTGLELRFPEP PKPTLPLALSEAPVP/PERGENTGPRSLPS TPMPSWGPLLSSPPRATSPSPSQAN*PP PPRPSSHPTTVPPTRPQPWQPGCCAQPP RPCLH*RGGN*VY*GMQLHQKSVSWPH SQWPQKREGNGSSHEIHPSCPPSGFHGPS PEGRMPTQAGALHSWVPGLSLHSGSGP HPPPRWTATVQAARPRVPLTNL
4236	12287	A	5155	69	734	SRLGRDHVGPGLGGVG/VRR/RENDIGEY EGGRNEAGERHGRGRARLPNGDTYEGS YEFGRHGGQGIYKFKNGARYIGEYVRN KKHGQGTFIYPDGSRYEGEWANDLRHG HGYYYINNDTYTGEWFAHQRHGQGTY LYAETGSKYVGTWVNGQQEGTAEIHL NHRYQGKFLNKNPVGP/AKVCI*CWV*T TW*ISFNRYGKRRRGRGGRISNCCSKME SYPNH
4237	12288	A	5156	4	674	GVQRGHFQEAKGSGRCLSSLNVPHPSP SAGMDPSSPVNPPEEAGGPLAQVPSAAL AQVAPGPVPISSLEGTPLPF*ERGNSS HKQASGPERGARPPALLGPQEIGGSSK/Y PPPGPGSTLGKGLASPRCGPPQVLGWG LRDPTIRLEEGPWGSL/GNTPREPSIKCSP* MGRMGAOPLPKAEGAPPPTQLPPTHSPR RILGPLGASPERPPPRVVPVPGGEG
4238	12289	A	5157	3	342	NFFFLRQSF/NSVTQAGVQWRDLGSLQP LPSGFTPFSCLSLLSSWDYRHPHPANF LYF**RRGFTLLARMVLIS*PHDPPTSASQ SAGITGVSHGAWPKSIFFLNAEVMLEY
4239	12290	A	5158	1	251	VCVCGFCFVLETESRSVTQAGLQRHHL SLQPPPPGFKGFSCLSLPSSWDYRCPPR LANF*FLVEMGFHHVGOAGLKLVA PPASVSQSAEMTGVSHHALPG*SRSVTQ AGLQRHHLCSLQPPPPGFKGFSCLSLPSS WDYRCPPRLANFCIFSRDGVSPRWG SQTGLK
4240	12291	C	5159	24	362	MGITVFRXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXX*
4241	12292	A	516	3	853	SQARTQLSSLAAARAHPSARAPAVSPR CSPAGQTNPPDPVPTLAAPSGAWSKM MLQHPGQVSASEVSASAIVPCLSPGSLV FEDFANLTPFVKEELRFAIQNKHLCHRM SSALESVTVSDRPLGVSITKA EVAPEEDE RKK\RRRERNKIAA\AKCRNKKKEKTEC LQLQY*QSHRPPLWHHQGFSEEGHFP KPSAALPSIFLSQLDEPRCVQSEKLES VNAELKAQIEELKNEKQHLYMLNLH TCIVRAQNGRTPEDERNLFIQIQIEGTLS
4242	12293	A	5160	1	287	FFFF*DIRVSAQSPRLECSGAILAHCNCL PGSSDSCASTSPVAGITGMCHHTQLIFFV FLVETGVHHVG\RAGLELRLQVIHPPQP PKVLGLQA

4243	12294	A	5161	1	1672	QTGLQATTKHSGFPVRMDNAVPIVQAP AAQPLQIQSGVLTQGSCTPLMVATLHPQ VATITPQYAVPFTLSAAGRPALVEQDC RCTAGVAWKGLKQILLPSNFGQQLAWG *ALHNS\VOPTAMIEAMGSGQQLADWR NAHSHGNQYSTIMQQPSLLTNHVTLATA QPLNVGVAHVVRQQSSSLPSKRNK/QS APVSSKSSLDVLPQVYSLVG\SSPLRTTS SYNSL\VPVQDQHQPPIIPDTPSPVSVITI RSDTDEEEDNKYPSSSGLKPRSNVISYV TVNDSPDSSSLSPYSTDTLSALRGNSG SVLEGPRVVADGTGTRTIIVPLKTQLG DCTVATQASGLLSNKTTPVASVSGQSSG CCITPTGYRAQRGGTSAQPLNLSQNQQ SSAAPTQERSNNPAPRRQQAFAVAPLSQA PYTFQHGSPLHSTGHPLAPAPAHLSQ AHLTYTAAPTSAAALGSTSSIAHLFSPOG SSRHAAAYTHPSTLVHQVPVSVGPSLL TSASVAPAQYQ\QQVATQ\SYIGSFRGST IYTGYPSPTKISQYCYL
4244	12295	A	5162	1	111	ELRYKRWPGWKADTPQAQTVKVVGV GKSRESMIQLF
4245	12296	A	5163	2	1034	DRAHLVDFDHQAVDGLQEVQRQAQEGK NIGTTKKGIGPTYSSKAARTGLRICDLLS DFDEFSSRFKNLAHQHQSMPFTEIDIEG QLKRLKGFAERIRPMVRDGVYFMYEAL HGPPKKILVEGANAALLDIDFGTYPFVTS SNCTVGGVCTGLGIPPQONIGDVYGVVKA YTTRVGIGAFPTQINEIGGLLQTRGHEW GVTTGRKRRCG\WLGSMILRYAHMVNG FTALALTKLDIL\DVLGEVKVGVASYKLN GK\RIPIYFPG*PGRCFKKGRKLKYETLPG WK\ADTTGRPGRWEDLPPQAQTYIRFVE NHVGSRSYHYQSFL\VSVKWVGVGQ VQESPMIQLF
4246	12297	A	5164	3	148	LLSSRDHRHVPPHPANFFCRD/RGLAMLFP RLALNSWA*AIHPPWPPKVL
4247	12298	A	5165	3	325	YVFSGLAHQILNVSLGIRRLHLADSV GICLAKLRIAPVPPHNESVFNRWRC\YS SCSY\HHLITSHQFQPSSELIKYNHLQHN KHACANAA*EKAGMYRHRRLH
4248	12299	A	5166	373	950	SRGVFFFLRQSFTLVA*AGVQWCDLGS QLPPPRFKQFSCPASLVSWDYRHAPPH ANFFIFLVEDKGFSMLVRLGLELPTSGDL PASASQSPGITGVSHHARP*MILFIMFSF GRRDGVSVTQAGVQWHDLGLQASPSG FMPFSCSLSPSSWDYRHV*PCQANFLYF* *ANLSRVSPCWSGWSRTPNLK
4249	12300	A	5167	2	334	VRHRFTLVPAQAGVQ*CSLG*QQSPPPWF KQFSCLSLPRSWDYRHLPHPANFFVF/V EKTGFHHVGQAGLELLTSVDPPASASQS AGLTGLSHHAQLSFNLSAKKSFTKTRS
4250	12301	A	5168	35	437	
4251	12302	A	5169	1	1845	
4252	12303	A	5170	1	212	
4253	12304	A	5171	371	915	
4254	12305	A	5172	1	2460	
4255	12306	A	5173	1	933	LESMIGIDPGNRGIGHLLCKDELLKASLS LSHARSVLITTGPTHFNHEPPEETDGP GAVALVAFLQAL\GRRSP*SLTREPVLH QKIVEDA\LSKV*RRRSRY*LT\KVDQW KLLRHSCAKIGDPQTLRFDHLVAIERAG RAADGNYYNARKMEHQAL/RLTPFDDL FL\SAKKIPGISSIGVGDGGNELGMGVK EA/DEEAHTARGCHRLATWKAFAVIAG VSNWGGYALACALYILYSCAVHSQYLR KAVGPSRAPGRFRPGLRPSRRSLRKKKC

						WASWCSTKSGVASRASWAWRWMGCPSTTTPR
4256	12307	A	5177	1	439	
4257	12308	A	5178	1	552	GNEFSILKSPGSVFRNGNWPPIGERIPD VAALSMGFVSKEDLSWPLAAGVGNLFHR PRGYPSWVMVKGSGTKLALTPQAVVIS YPLENRVYVMVGKANSVFEDLSVTLRQ LRNRLFQENSVLSSLPLNSLSRNNEVDLL FLSELQVLHDISSLLSRHKLAKDHSPDL YSLELAGLDEIGKRY
4258	12309	A	5179	3	1111	ILKSPAGSVFRNGNWPPIPREARDPPDVA ALSHGLPL*KKDLSWPLAAGVGNLFHRP RATVMVNNGVGNKLDLPPAGSGISYPL ENAVPFLSDSVANSIHSLFSEETPVVLQ LAPSEERVYMKGRANSVFEDLSVTLR HSRNRLFVKKTLFLSFTPPQILLSRNNEV DLLFLSELQVLHDISSLSRPKHLARDH SPDLYFTGSWAGLDEIGKALLGEDSEQ FRDASKILVDALQKFADHDVPMVMVGN PVVELVHCPSHLNTSPPLGKTRDPLRPK QAQEPQQVPYNLAIKYNFEYSVVFNM VLWIMIALALAVIITSYNIWNMDPGYD SIYRMTNQKISEWIECYLWPRIRKRGFG NWLFC
4259	12310	C	518	512	739	MAEHHWAFPIPSXASXGAXLQPTKATL KKXEGFKXFKKKKKKKKTPEGGAXGTX IXXPXGGAGXNKXPXGXXG*
4260	12311	A	5180	18	594	NVAGTAICSFAPGRRQTPCHTREPQDGR PRARLTAWTRARGTCRVAHTHTGRQNH PMPLWGFSRHHRAFSEHLSLGCAPPSAT WT*TRSPAAAAAGP/PVPRKPNPSPPSRS PAGLRPPGRAGPLTSPRCGPPASQASDT VGPVRHKQRGPTSDVSGAWDGPATAAS GPVVRLYPSTLGGRGRQITRSADKT
4261	12312	A	5181	68	446	RLTSELAQTLAVHPSKSARPR*AGE/KP GKKPPLQVNGAWD**PRVGADPGHSPD SLDPSTGDVQGGSYSYWEGRTITMPLW GFPDRAGLLGSPGSSGPGKRRPILAQPY KLELQARFLGPGH
4262	12313	A	5182	2	512	APPSATWT*TRSPAAAAAGP/PVPRKPNP SPPSRSPAGLRPPGRAGPLTSPRCGPPAS PGIGHCGCRQTQAAWPRRRTYQGRGMG PRPRPRRPVVPVGGERSHSHPSGPPLRSP GPEWGLTSSSCPARG/PGGCLCPQNQLPN PGP/SGPASPNLPSRLHPTDTSGBPFPRA

4263	12314	A	5183	14	720	RNFPDRPTRPRTRGRTRGRTRVTRFGPG PVASAGCSRGDGRFGEAGPTALDSGADS GVRDTLPVHEPGSCLRYRTPRPRSRHAH PTPLIRPTSGPRCFGSDGTHSVRCPVNAG RPGHLGLGG/AKSSGFAGQKGRLLLAAG TCGVHVQGPLRAARPQEVLFQGGPLQP AA\PEQPPATGAWLQPRLCSEKAL*LP* GAP/SQSPPRPMQPVTPASG*NAGGPGA SGGTRVPG*KLPDTGGP/SAQHPLSPTGL PHDARP/PSSCPTGRSCVHCPQLNAVHL* E*PANSELSRPLSEDTGP*AAPTRPGSAG PISDPHS\PPSPSSSSGTPALPGHMSS/GG KWYQHQSACPVGL/PPDPGAEKAGSQ PSPGHLVQAPGHPGPPGHTPAVTPSFPN SRAALPSFSR*PCPQSPKPGQSCDPRPPR KPKPWKFQGS*GLPLQKNRPPFSPRTG ATPGEPPGAL/PLSGNPPKSHRDGSALPS MSMSHPARPSVLGSKLSGLPSSWPGPC TF*WMKCGRTRSIRGHSCAWLKAA
4264	12315	A	5184	2	1558	RRSRDSGYRAPPASHSRPGQAARAPAPR PARREVCCPRPGVPRRARTTRKTPTWAA VATGTRGASAEAGGPTGLAHG/SGLAAAA GLM\GCEPASGWGPGRQSGGARTAAAGS SGSSSGGPSAPTSSSVLGSGLVAPVSPY KPGQTVFPLPPAGMTYPGSLAGAYAGYP PQFLPHGVALDPTKPGSLVGAQLAAAA AGSLGCSKPAGSSPLAGASPPSVMTASL CRDPYCLSYHCASHLAGAAAAASASCAH DPAAAAAALKSGYPLVYPHPLHGVHSS LTAAAAAGATPSLAGHPLYPYGFMLPN DPLP\TSATGCRPTGRATSASPRPKSC*AT /SRHTAFPGTDKLLSGYPSSSSLASAAA AAMACHMHIPTSGATGQPWDAGAAQPP PRGWDSAAATTPTPRA/ALPTGAPVPVP AATGPYYSPYALYGQRLTTASAAGVSV RGGREGERGIGRKRGRGGVQGEAASRT RLLTARGEGLGPRKERNVLPYISYPTAA TETRWDTPLLPTFTSHTQTL
4265	12316	A	5185	6	56	VVAWRGSDSFGLTSKLVQRQVFHHQL LKTVPHQAHPY*LPRAALQQIHRC*LPR/ DTSQVAASLLASKSSSQTSGLSVSKSTSL ASVSQLASKSSSQTSQLPSTSQSSES SVKF\CKLTNEDVKHEATFF/LIRLYKTV AWKLVAVGGFSPNVNHGELLNAAIEAL KATLDVFFVPLKELADLPQNKSSQESIVC ELRCKSVYLGTCGCKSKENAKAVASRE ALKLFLKKKVVKICKRKYRGSEIEDLV LLDEESRPVNLPPALKHPQELL*CVQNIT AYNIWYLKTKTDFCIV*N
4266	12317	B	5186	133	345	RLSERRNWTPQAMLYLKGAQGRRYLLR PEPANGPLRPAHCRIDHAPISTYYILRRPE PSYRSSSYFPDDD*

4267	12318	A	5187	2	2168	KESRRTVRRMLRGRSLSVTSLGGLPQWE VEELPVEELLFEVAWEVTNKVGGIYTV IQTKAKTTADEWGENYFLIGPYFEHNMK TQVEQCEPVNDARRAVDAMNKHGCCQ VHFGRWLIEGSPYVVLFDIGYSAWNLDR WKGDLWEACSVGIPYHDREANDMLIFG SLTAWFLKEVTDHADGKYVVAQFHEW QAGIGLILSRARKLPATIFTTHATLLGRY LCAANIDFYNHLDKFNIDKEAGERQIYH RYCMERASVHCAHVFTTVSEITAIEAEH MLKRKPDVVTNGLNVKKFSVHEFQN LHAMYKARIQDFVRGHFYGHLDLDFLEK TLFLFIAGRYEFFKTKGADIFLDSLSRLNF LLRMHKS DITVVVFFIMP AKTNFN VET LKGGQAVRKQLWDVAHSVKEKFGKKLY DALLRGEIPDLNDILDRDDLTIMKRAIFS TQRQSLAPVTTHNMIDDSTDPISTIRRIG LFNNRTDRVKVILHPEFLSSTSPLLPMDY EEFVRGCHLGVFPSSYEPWGYTPAECTV MGIPSVTTNLSGFGCFMQEHVADPTAYG IYIVDRRFRSPDDSCNQLTKFLYGFCNMS RRQRFIQNRNTERLSDDLWDWRYLGRY YQHAR\HLTLRQSFSKINFHVGT*HAPPT DRKDFKYPR\PCSYPPFSFQSSGPSSP\ QSSDVEDEVEDERYDEEEEAERDRLNIK SPFSLSHVPHGKKKLHGEYKN
4268	12319	A	5188	1	1347	
4269	12320	A	5189	1	272	QTEGFKYRRPSSVPPSPSGSQASSQSSD VEDEVEDERYDEEEEAAGFG/RVY*ESPSI LYAVPYSDSCCQVTPSLHCSHFFILPKT DKSS
4270	12321	A	519	1	760	
4271	12322	A	5191	225	430	
4272	12323	A	5192	16	1420	PSVRRNQRF*SCKDFDYWHN*RKQEGC YT/VLEKKVLSNRKQRVF/DGSSGKLTGS TSSLNKL SVQSSGNRRSQSSSLDMGNM SASDL DVADRTKFDKIFEQVLSELEPLCL AEQDFISKFFK\HSNIKVCLELWAGSRGP GMGGTIITAT*LLGTPLPVSEKDMIRQM MIKIFRCIEPENNIALGDKIDSFNSLYM LVKMSHHV* LQQNVDPASFLSTTLGNV LVTVKRNFDKCISNQIRQMEEVKISKKS KVGILPFVAEFEEFAGLAESIFKNAER\RG DLDKAYTKLIRGVFVNVEKVANES\QKT PRDVVM MENFHHIFATLSR\LKISCLEAE KKEAKQKYTDHLQSYVIYSLGQPLEKLN HFFEGVEARVAQGIREEVSYQLAFNK QELRKVIKEYPGKEVKKGLDNLYKKVD KHLCEEENLLQVVVHSMQDEFIRQYKH FEGLIARCP\GSGVTMEFT
4273	12324	A	5193	2	391	FFFFLRWSLA/SV/TQAGVQWRGLGSWQ RPPPGFKSFSCLSLLSSWDYRRPPHAQLI FVFLVETSFTMLAGMVSIS*PRDPPASAS QSAGITGVSHRARLTLLIFKRCSIRDESFE VFLYVYLFKTNILLKA
4274	12325	A	5194	2	302	KTLSGCGPRLEVQWCNLGSLQPL/PFPGS K*FSCLSLPG\SWDYRSVPPRSANF*FLV ETAFHHVGQAGLELSTSGDPPVSASQSA GITGVSHSARQ*RAF
4275	12326	A	5195	2	388	RATPRHIIVRFTKVEMKEKMLRAAREKG RVTLK GKPIRLTADLSAETLQSRREWGP /IFNILKEKNFQPRISYPAKVSFISER*IKYF TDKQMLRDFLT SRPALKELLKEALNMER NNRYQPLQNHAKM

4276	12327	A	5196	1	578	VAAKCMHKDAKKGFIRLDMS*FQERHE VAKFIGSPPGYVGHEEGGQLTKKLKQCP NAVVLFDVVDKAHPDVLTIMLQLFDEGR LTDGKGKTIDCKDAIFIMTSNVASDEIAQ HALQLRQEALEMSRNRIENLGDVQISD KITISKNFKENVIRPILKAHFRRDEFLGRI NEIVYFLPFCHSELIQLVNKEC
4277	12328	A	5197	3	1618	
4278	12329	A	5198	495	653	MTLTSIDPVLTTFFNLECP/VFTATASSG LGEVE*AIALN
4279	12330	A	5199	1	1433	MPESNCSLTWRHSVGRAVAAQGGHESS QGASLVLGEPRGSSWLLGLEGDTGLW GGLLKEGRLTDGKGKTIDCKDAIFIMTS NVASDEIAQHALQLRQEALEMSRNRIAE NLGDVQISDKITISKNFKENVIRPILKVR GLSWHFLLEPKAHFRRDEFLGRIGEIVY FLPFCHSELIQLVNKELNFWAKRAKQR HNITLLWDREVADVLVDGYNVHYGA RSVKHEVERRVVNQLAAAL*SRITLLPAG GCTLRITVEDSDKQLKSPSPQAEKR LPKLRLIIDKDSKTRRLDIRAPLHPEKG RLTDGKGKTIDCKDAIFIMTSNVASDEIA QHALQLRQEALEMSRNRIENLGDVQIS DKITISKNFKENVIRPILKVRGLSWHFLLE PKVLTTFNLSVLVYHGNISQRLGEVNKL AVLPRLRSLTLHGPNMEEKGYRRARG HSLHQGIEKYICESDDIFRKYCNNQFL
4280	12331	A	520	669	823	
4281	12332	A	5200	1823	4712	FFKKNLCASAHYY/TWCVLPFFFFLRQG L/NSIGQAGVQWCNHSSLQPCPPRLKLSL HLSLPSSWDHRHAPLRMT/NFFKYLRRG LPVLPRLVSNWAQVVLPS/SASQSIGITD MSH*PAQLPNSLPFFKRQFRSISPLGM Q*CDHSSL*PQTLGLKQFSHQPPFYFFVQ MGSCYVAPSW*TPKENTTIIQHPHMYT LKTTVTFLYTELYSDIA
4282	12333	A	5201	3	298	RQSCSVA*AAVQWRDLSSLQPPPLGFKR FCSLSLSSWDYRRPPRSVNF*KIFLIET GFHHLGQAGVERLTS\DPFGSASQSAGII GISHCTWPFLFK
4283	12334	A	5202	1	422	APMPAATMTARSGPAAISTRCPWRPRSP STPRPSWSGTCCAPTRSLRRAATASQGPS PATNTPSPRAASP*RVWAPRTETIKGHT AHSLRTGATTGPKLSAP/VATESGHPDSQ KPPTHPTGSD/TILPPETASHPSTRP*LPP ETASHPSTRP
4284	12335	A	5203	123	201	KRGFCWVPQVGQGHDFGLWQSPFPGL RQFSGFFLWKSWDYGHPPPC*ISSSSSSSS SVFSSSSSSSLKLWT*GDPLA*VSQRVGIP GLSHWP*PRLGGRGTILVYGNLHFRD
4285	12336	A	5204	88	167	KINMGILLKLVRFNINPVKTPAGLFSSS SHE/TEIDKRILKFIWKCTEHRIAKQSLK RTKLEDFLLNFKTYEATEIKTS*YRFNI NPVKTPAGLF
4286	12337	A	5205	179	474	FGFQINVFKDPVADPNKRSKKGRSLHR TPVAGNFVTLE*GKGDL EYGQDLLHTV *KNGKVTKAYSFDEIRKNAQLNIELEAA RSLGLMDWVCVCM
4287	12338	A	5206	195	351	

4288	12339	A	5207	1	1080	ERCTMPDEPLVRAPDKGTDSPSPPLEET SNGGRMLHESLRHAVPITRMQSSSEDTEA G/PAYSDEDEYEDIIIEPRILNEITVTDKT SPWSSVISDTSEVISQPDEVOQREGPSCPS PGPFCREELMVKSSFLSSPERAVNPHLPR QD\SPSQSLVACECEASKARVGGESASA NPQIPPCPTLSGAQQSSTFVGWSSPQTDQ NKEPKSEAPAIEELKVATS*GSVDSA*LA FKKLPLNLASQSRRENHKGPPIDSSDIRQ RQVTTGSETSTKQSLLLPGPIVVPNFFLPP QQLEASLRMLSLSATLPPAATTDQDKSE ATRGALSQRPCRPRPNSLPLNLPPEETLR IARIFSSQYSQKD
4289	12340	A	5208	1	1140	AIVEDKHSGRSYDITSDLGNVLTSTSIK TVNG*AESSDSGAESDEEDAQEDLMGA YHSDIDKKMMKIVADHKNLEVIVTNGY DKDGFVHDIQNDIHASSLNGRSTVHVK PIDENLGQTGKSAVCIHQDINDDHVEDV TGIQHLTSDSDSEVYCDSEMQFGQESL DSFTSNNGPFQYYLGVHSSPPMENSGR EDIQGPNGNIGNMQVVAVEGKGEVK HGGEDGRNNSGAPHREKRAGETDEFSN VRRGRGHRMQHLS\EGTKGRQVSGGD GERWGS DRGSRGSLNEQIALVLMRLQE DMQNVLQRLQKLEMLTALQAKSSTSTL QTAPQTSQRPSWWPFEMSPGVLTFI WPFIAQWLVLVYLYYQRRRRKLN
4290	12341	C	5209	68	331	MLKNVLMRKC GVHDREKFLVLDYFCQS SVLAVLYLILSLCYFPYQDVASECEVKC MPTFQFFKKGQKVGEFSGANKEKLEATI NELV*
4291	12342	A	521	3	108	VCREREPHQKVFNKMPK*SYRTVPVTPE GIVLSL
4292	12343	A	5210	935	1036	
4293	12344	A	5211	1	3270	MRPKTFPATTYSGNSRQRLQEIREFGLKQ PSKSSVQGLPAGPNSDTSLDAKVLGSKD ATRQQQMRATPKFGPYQKALREIRYSL LPFANESGTSAAAEVNRQMLQELVNAG CDQEMAGRALKQTGSRSEAALEYISKM GYLDPRENIQVRVIKQTSFGKGLMPTPV TRRPSFEGTGSFASYHQLSGTPYEGPSF GADGPTALEEMP/PAVRGLPFPRSRPPRA RPPAPAPTQGLRCQRRGSRGTLPAAGRA LR
4294	12345	A	5212	3	274	LERLIFVGGGLQFFPPPKLRFFPKIPQLVF FSPFPRKKIFPCPPRLSLGPPRVLLKGPPS SSSSSSSSKKC*PLMFYCHRRWPTGVYV LP
4295	12346	A	5213	403	776	QGPDPHFSFLFWHLLQAPGLSPCLKWATA LETPPSPNGLPIVPVFPSSRMAGMIESH IIEIGFLPNKEKKKGCCPLFPRNFGFKF APSGLVGYLKVFEPKLNYSDHDVIKW VR*VGR/SGIY
4296	12347	A	5214	165	439	PPRQAKMQNLAAPGSHSQSPW/TLRPKA L*LTPSQIFSA*RLKTDARSRKPPSFQG PVSLASITVVGIDGQASKPLKTPQLWCQ LRQYSFK
4297	12348	A	5215	2	525	AAED*HCPASETYKTITLWVTLVPEG KSVPLINTEATHSTLPSFGQPVSLASITV VGIDSQAYKPLKSSQLWCQLGQYSFMH SFLVIPTCPVLLGQDILTKLSASLTIPGL QPHLIATLFPCLKPPSHPLVSPHLNPHIW DMSTPSLVTDHAPLTIPLKPNHPYPVQC
4298	12349	A	5216	1	425	PGNEIYR/KGTISFFEIDGRKNKYSQNL LLAKCFLDHKTLYYDTPFLFYVMEYD CKGFHIVGYFSKEKESTEDYNVACILTLP PYQR/RGY/GKLLIEFSYELSKVEGKTGP EKPLSDLGLLSYRSYWSQTINEISEITS

4299	12350	A	5217	25	193	LGGCEDSRKGAAPRCFLSRGDHSWEPRD *PPPWLFPNSNC**LAAGRPSVVRSSPS
4300	12351	A	5218	1	1383	
4301	12352	A	5219	1	1617	MAEVGEIIEGCRLPVLRNQNDEDEWPL AEILSVKDISGRKLFYVHYIDFNKRLDEW VTHEERDLKKIQPKKEAKTPKNGLP SRPGSPEREVPASQAQSGKTLPIVQITLR FNLPKEREAIPEGGEDQPLSSSSCLQPNH RSTKRKVEVVSPATPVPSETAPASVFPQN GAARRAVAAQPGRRKSNCLGTDEDSQ DSSDGIPASAPMTGSLVSDRSHDDIVTR MKNIECIELGRHRLKPWFYFSPYQELTTL PVLYLCEFLKYGRSLKCLQRHLTKCDL RHPPGNEIYRKGTISFFEIDGRKNKSYSQ NLCLLAKCFLDHKTLYYDTPFLFYVMT EYDCKGFHIVGYFSKEKESTEDYNVACI LTLPPYQRRGYRKLLEFSEYELSKVEG KTGTPEKPLSDLGLLSYRSYWSQTILEIL MGLKSKSGERPQITSNDISEITSIKKEDVI STLQYLNINYYKGQYILTSEDIVDGN ERPMLKRLRLRIDS/KCLHFSQRTWSQE VDSGDQDTCPHCKCQRPASQDLGAD
4302	12353	A	522	383	542	LWSPNSNILDTTTAGETPEQDLNRERER EKE/RERERERERERERERERERERES
4303	12354	A	5220	890	1537	MLLMFICDLLTLSCSIALGYELSKVEGK TGTPEKPLSDLGLLSYRSYWSQTILEILM GLKSESGERPQITIK*AWRCLPGGTWHG LSVPGLSLGLLGTDKGPQGT*PVLHSE ISEITSIKKEDVISTLQYLNINYY/KGRE GRGDRCVGCVRVQSSVG*PPAEPISQAQ QYILTSEDIVDGERAMLKRLRLRIDSKC LHFTPKDWSKRGKW
4304	12355	A	5221	2	434	LRDGVLLCHPGWSTVAQS*LTAALNFW VRGSSCLSL*LVLRNSPLHPANLFFYFC R/DKHLTILTRLVLNFWAQVILRPWLPKG LGITGMSHCTQPNFKNQRKGYCQVNFN NQTKTSLAGNTYFTPIPLFGNKHVTSY NFPSM
4305	12356	A	5222	3	384	VVAAEVPSFFFFLRTESCFTVQAGLQW HDLGSATS/SPGSSDSPASASQVAGITGR HHYALA*FFVFLVDMGIHHVGSWSRN SLNLVNLPLCLGPPQYWGLQGMSPMPRP LKCPSLKGKMPNSHP
4306	12357	A	5223	2	322	LYFFSFETESCSVTQAGVQ/WWCDLGS ATPPPAGSSNSCASAS*VARITGVHHHAQ LMFVFLVETGFHHFGQSGLKPLSDPPAS ASQSAGINRCEPPGTGHYIFSK

4307	12358	A	5224	1	2535	MQPLDFSSGGSDPNISLSEKIRDQLVVGQ LIPDCYVELEKIILSERKNVPIEFVIDRKR LLQLVRENQLQLDENELPHAVHFLNESG VLLHFQDPALQLSDLYFVEPKWLCKIMA QDVSSIFGLYIRDILTVKVEGCPKHPKGII SRRDVEKFLSKKRKFPKNYMSQYFKILE KFQIALPIGEEYLLVPSSLSDRPVIELPH CENSEIIRLYEMPYPFMGFWSRLINRLL ISPYMLSGRGICILLGQVVDHIDSLMEEW FPGLEIDICGEGETLLKKWALYSFNDGE EHQKILLDDLMKKAEEGDLLVNPDPRL TIPISQIAPDLILADPPRNIMLNNDLEFEQ APEFLDLCFVCIHLYPSSDYISRHYMRTI NIVQTGFAKCRWRVTVHGADHGDGSFG SVYRAAYEGEEVAVKIFNKHTSLRLLRQ ELVVLCHLHHPSLISLLAAGIRPRMLVM ELASKGSLDRLLQQDKASLTRLQHRIA LHVADGLRYLHSAMIIYRDLKPHNVLLF TLYPNAIIAKIADYGIAQ/SLL*NGD*KTI QRGTPGFRAPEVARGNVITYNQADVSYF GLLLYDILTGGRIVEGLKFPNEFDELEIQ GKLPDPVKEYGCAWPMVEKLIKQCLK ENPQERPTSAQVFDILNSAELVCLTRRIL LPKNVIVECMVATHHNSRNASIWLGC HTDRGQLSFLDLNTEGYTSEEVAADSRLC LALVHLPVEKESWIVSGTQSGTLLVINTE DGKKRHTLEKMTDSVTCLYCNSFSKQS KQKNFLLVGTADGKLAIFEDKTVKLKG AAPLKILNIGNVSTPLMCLSESTNSTERN VMWGRMWHKDFLLF
4308	12359	A	5225	2	223	LGVAFCFCFCFWFVLFVGLQLLSNL EKFPQLCLQIFLSPCPIRSLY/C*SSKV SCLTVTLVFPVFFSL
4309	12360	A	5226	236	1626	LAAAAHPLAGLVGGEAWIGGAKSWLSF SAGSSCMAEMATATRLLGWRVASWRL RPPLAGFVSQRAHSLLPVDDAINGLSEEQ RQLRQTMAKFLQEHLAPKAQEIDRSNEF KNLREFWKQLGNLGVLGITAPVQYGGG GLGYLEHVLVMEEISRASGAVGLSYGAH SNLCINQLVRNGNEAQKEKYLKLSIGE YIGALAMSEPNAGFWMVSMKKAEEK GNHYILNGNKFWITNGPDADVLIYAKT DLAAVPAISRGITAFIVEKGMPGFSTSKK LDKLGMRGSNTCELIFEDCKIPAANILGH ENKGVYVLMGSLDLERLVLAGLLGLA MQAVLADHTIPYLHVREAFGQKIGHFQL MQGKMADMYTRLHGLFGQYVYNVAK ACDEGHIIPKDCAGVILYAAECATQVAL DGIQCFGGNGYINDFPMGRFLRDAKLYE IGAGTSEVRRLVIGRAFNADFH
4310	12361	A	5227	1	867	MATATRLGWRVASWRLRPPLAGFVS QRAHSLLPVDDAIKGVLR/ESQRQLRQT MAKFLQENLAPKAAREIDRSNEFKNLRE FWKQLGEPWAVFGASQPLVQYVGFRP GAYLGSMLLG*WEEISPSFGAVGLSYG AHSNLSHQPSLLRNWEFRAQKEKYLPEG *FSGÆYIGALAMS KPHAGSDVSMKLLK AEKKGEATNLGAKMGRGNHYILNGNK FWITNGPDADVLIYAKTDLAAVPASRG ITAFIVEKGMPGFSTSKKLDKLGMRGSN TCELIFEDCKIPGK
4311	12362	A	5228	3	391	SHHHPLAAPSLGEAAISRSFQSLACSPGL PAADRLSYSGRPGSRQAGLGRAGDSAV LVLPSPGPRSSRPSMDSEGGSLLLDEDS EVFKMLQENREGRAAPRQSSSFRLQEA LEAEERGGTPAFLASSLSPQSFLARLQG/ GLATPPKLHTCEKCTSIANQAVRIQGR YRHPG\CYTCA\DCGLNLK\RRGHFWVG DELYCEKHARQRY SAPATLSSRA*APFG

						SCRKPWKLRRREVARQPSWPAH
4312	12363	A	5229	2	384	FVHFQSKKTMRKICLFFFSSETGSRVS QAGVQ/WARVIAHCNKLKLDSSDLPALA LAS*VARTVGMVYHRGLACVYFIIQNLIL YFLAQMNLLKKHTFLFYEMLNLIASQA GKIYSSNRNIKVFWPQ
4313	12364	A	523	389	549	ERKRPSRKQ/RERNRKNQNERKSRGDW QRANVGAGQKEEMKCLAVELEIGSQPR S
4314	12365	C	5230	301	369	MPTLYNHCFLQLFTIISKLISY*
4315	12366	C	5231	210	329	MWNLCIWRVNCNTINNTNMPTLYNHCFL QLFTIISKLISY*
4316	12367	A	5232	2	268	FFFLKRD/RVSFCHPGLSAVAQL*LTVAL NS*VKGSSYLSFQS/SWHYRYVLPYLAN FKNFFKRRRLTLFLRLILTSWAQVSFL QPPK
4317	12368	A	5233	1	415	LFAGPSAMFYLA AAVSDFYVPVSEMPEH /KIQSSGGPLQITMKMVPKLLSPLVKDW APKAFIISFKLETDPAINRARKALEIYQ HQVVVANILESRSQSFVIVTKDSETKLVS THSFYR*QKIK*KALIGSKIVQGS
4318	12369	A	5234	3	705	PVRFLDNFSSGRRGATSAEFLAAGYGV LFLYRARSAPFYAHRFPQTWLSALRPS GPALSGLLSLEAEENALPGFAEALRSYQ EAAAAGTFLAVEFTTLADYLHLLQAAA QALNPLGPSAMFYLA AAVSDFYVPVSE MPEHKIQSSGGPLQITMKMVPKLLSPLV KDWAPKAFIISFKLETDPAINRARKAL EIQHQVVVANILESRSQSFVIVTKDSET KLLSEEKKK
4319	12370	A	5235	200	636	GPCAMFYLA AAVSDFYVPVSEMPEHKIQ SSGGPLQITMKMVPKLLSPLVKDWAPK AFIISFKLET*PR/LIVINRARKALEIYQHQ VVVA/NILGVKDSPLCLL*PKDSEPKLL SEEEIEKGVEIEEKIVDNLQSRHTAFIGDR N
4320	12371	A	5236	17	424	
4321	12372	A	5237	1	338	SDRQLDC/ALDLMR/RLPPQQIGKNLSNLI DLVPSLCEDLSSVDQPLKIARDKVVAK DYLLCDYNRDGDSYRSPWSNKYDPPLE DGAMPSARLRKLQVEACFCHTSLSVLST FP
4322	12373	A	5238	2	160	
4323	12374	B	5239	46	426	MSDQQLDCALDLMRRLPPQQIEKNLSDL IDLVPSLCEDLSSVDQPLKIARDKVVGK DYLLCDYNRDGDSYRSPMEVTKYDPSL GRMGGNAVKLRAEKSLEV GKANKWPF DQYPKTLLLELLDPG*
4324	12375	A	524	1	495	EELVPIFLTLFHKIEKEGTLPSFYEASITL IPKPGKDITKKNYR WISLMNIDAKILNK ILANQIQITKKIHHHDQVGFIPGMQGW NMHKSINVIHHVNRIKKNHMIISIDAEK AFDKIQHPFMKTL SK/MGIQGTYSVIK AIYDKPTANIKQTFQIQD

4325	12376	A	5240	2	938	PRVR*APGPAAGGRATDAGTGTAATAAT TMSDQHLDCA LDLKRRRLRPQQIEKNLSD LIDLVPSLCEDLLSSVDQPLKIARDKVVG QDYLLCDYNIDGDSYRSPWSNKDDPPLE DGAMPSA\RLRK\LEVEANNAFD\QYRDL YF*KVGVSSVYLWDL\HGFGLS/VILH KRKGWEDGIKRRSKGCWDSIHVVEVQ EKSSGRTPHYKLTSTVMLWLQTNKSG\S CTMNLGGS LTRQMEKDETVSDCSPQIS/ ATIGRLVEDMENKIRSTLNEIYFGKNKG YRSMGLRSV\QTF\ADNSKQEALEELTLV GGFERESKQC
4326	12377	A	5241	1	1911	
4327	12378	A	5242	3	803	ESVAAALSPLG\IEVDIDVEHGGKRSRLT PVS\PEVS\ATGEKSSSQPSSCCASDPSPKG GNVEGATQSLAEQMRKIALESEGRPEAS LCPFPPTTGGQPSDLWPAPPHSQHLCS PTYKPEGAGCWLAVDVCCHLKSRWEPA RTL*LLGLCEWPLFPLDPCSLNCTCACVL PDCLPGARAMVRLGLLRVSPVCSW*VLF QEQMESDNCSSGDDDDWTHLSSKEVDPS TGELQSLQMPSESEGPSSLDPSQEGPTGLK EAALYPHLP PGK
4328	12379	A	5243	2	1511	RGGCDRDGPFSASSPLAMASLTVKAYLL GKEDAAREIRRFSCCSPEPEAEAEAAAAG PGPCERLLSRVAALFPALRPGGFQAHYR DEDGDLVAFSSDEELTMAMSYVKDDIFR IYIKEKKECRRDHRPPCAQEAPRNMVHP NVICDGCNGPVVGTRYKCSVCPDYDLCS VCEGKGLHRGHTKLAFSPFGHLESGFS HSRWLRKVKHGFGWPGWEMGPPGN WSPRPPRAGEARPGPTAESAGPSEDPSV NFLKNVGESVAA\ALSPLGIEVDIDVEHG GKRSRLTPVSPSSSTEES\SSSQPSSCCS DPSKPGGNVEGATQSLAEQMRKIALES EGRPEEQME\SDNC/SQGGDDDDWTHLSS KE\VDP\STGELQSLQ\MPSESGPKLSGTP PREGPTGLERKLPYPHLPPEVDPRIDL SPFSQIACSMGLSS*LKGGLGSTRVPGRP KNY*HSERLWDTIQ\YSK\HPPAVVDHFL PTFFLRAPLLVFIVVFKLCVELAGLL
4329	12380	A	5244	24	493	HWQVLPRVKRLSPLKTHNCALPSTKLS AVRDYLFYSENLFQNLKDS*RGK*QA LK/SPTAVVFVLSLSHSFSFAVSEGCFHR ERQVASTSMEQLLSLLAGIPFVEDSCPLQ KELSKTLPLTLEVLGVSMFFKFSWLPVI WVFGFISQLSGLES
4330	12381	A	5245	1	4547	MRNPVHSHIGATVSHQTDGAVPNMP ALQSQLITSDTYSMQMIPSNSTRLPV AYQGNQGLNQSFSEQQVDWTQQCISKG LTYPDYRPPPKLYRYSQSFLPDSTIQKQ NFIPHTSLQVKNSQLLNSVLTLP SRQTS VPSQQYATQTDKRPPPPYPNCRYGSQPL QSTQHITKHLMEVPQSREMLSSEIRTSF QQQWQNPENNVSTIGNFTNLKVNTNSK QPFNSPIRSSVDGVQTLAQTNEEKIMDSC NP
4331	12382	C	5246	191	397	MLPRAGLLLCGKLVPNNFSQPSRQILLCL GCDSPHLTVGHEGWKTTLPGAGATPYRI GPFLLQRGVS*
4332	12383	C	5247	598	744	MSKVLNQSTYITVQCGYVSINSFYVSFY YSIKLAKRHLGTFRTVLVI*
4333	12384	A	5248	164	355	NGSTGCIGIQANQYFNYSLSSESGKFV KCTEQLELVPGENIH*LLEGSKKKLTLK NLFRNM
4334	12385	A	5249	1	308	KVQSFIFLYFIYF*DGV*LFRPGWSAVV LSRLTATSA\FRFKQFSCLSLPSSWDYRC PPLHLANFCIF**RRGFTMLARLV SIS*PQ VIRPPWPPKVLGLQM

4335	12386	A	525	219	471	INFKKNRNFNKNWY\WTCVATLEKNKM NSFLMIYPKSNK*FKNPNVRGKKL*NLFI ILLYFKF
4336	12387	A	5250	67	367	SDELRTPGRESLPAENISL*DRVNHQPAIE SCTA*NYLYSINAKTKGEMLEAEGMRV VTNSVYHWRKCEKQQTVLMKAGCWRT DKLCLPPEGMLWAVMSR
4337	12388	A	5251	1429	1621	IPWIPPVSRSMVTHTRAPTRFVHLPPFQ TDPFVVFISAFVLLRLVQKQP*QVVPDQ GPERGR
4338	12389	A	5252	180	411	IPWIPPV/CPFHGHHTLE/VHPHGLSISLYS PPADSPVQGFVVRLLISFTFSALADLPRSG PWSDTTCHGCFTVAASSESL
4339	12390	A	5253	288	530	
4340	12391	A	5254	9	257	IFTAVAFIISESWKQPQCL*TNE*/IKLWYI HTMQYYSAIKRNEKLIHATTWMNSEN QW*KARHKKPHIV*LHLYEGSQKRQI
4341	12392	A	5255	6215	7038	RTVTTFLSKDSHGVYCAQGGKIPDHQNP QCNRKQHPVSTILMLDKASFQRLRKRKH NLSVNCINRNPMSLKNTSWHSSLVSTQ RHQQSKLHFQGSILLH*PSQNL/SNI*K CINYC*HCSSVLLSYLFIESYSVAQAG VQWHDGLLQLPLRFKQFSCFLPSSW DYRSAPSCPANFCILVEMGFCHVGQAGL KLLASSDPALASQSAGITGVSHYTQPCS PFLKSTGLFCKVLNPNYHKGRIYLRM CFLNSTWHLVKSTLFCPLFI
4342	12393	A	5256	2	513	VLIQLVWIALLLVDPSPVLTKDEPASS TSSFTSQSKKQSGFLQSRN*GCIALC E/VFQREEIY*VGMD*DSFRIKWFFNFIFH LTVITSSDLHIHGEIWWVPNTDHCVRFF FVYDDCLVYAYINTLL*GFY*YILLVIV NYTGSVHWFIFYLVNLVLCFLLYI
4343	12394	A	5257	1	274	STPPHSSQRACEPLPSFAQCPR*APSPAP HCALICPIPKMEERP/PM*IGR*RRHLLST YCARSCTEQAPCIILLNPHNVLDLSRLW VKGQ
4344	12395	A	5258	3	436	GYLSEVVEENTPPKMEKEGLEIMIGKKK GIQGHYNLCYLDSTLFCFAFSSVLDTVL LRPKEKNDVEYYSETQELLRTIVNPLRI YGYVCATKIMKLRKILEKVEAASGFTSE EKD/PAGQKVQDCYFYQIFMEKNEKVG VPTIQ
4345	12396	A	5259	1	340	
4346	12397	A	526	1	1423	MNPNQEEISDLPERIQETEKEGTLPSNFY EASITLIPKLKGDKTKKENYRPIISMNIE ANILNKILANIQQHIKKIHHQVGFISQ MQGWFNIHRSINVIHHINRIKKNHMIISI DAEKAFDKIQHHFMIKTLKIGIQGAYLN VIKAIYDKPTANIILNGKKVEAFPLRTGT RQGYPLSQLFFNIALEVLAIRQENEIK GIHIGKEKVKLSLFAGDMIFYLENPKDSS KKLLELIKELSKVSRWELNNENTWTQGG EHHTPGPVVSGEERGIALGDTPNVNDK PLTGAALASTLGVWENENKFTHLFNIHS QFCLPSQGIFFLCGTSTYVCLTTNWTSTC TLIFLSPKIDAPGNQTLPPVRAQVHQH RAVQIIPLLIGLGVTNATGTGIAGLSPSL YYHTLSKDLSDSLQDIKSTLTLQSQIDS LAAVTLQNHRLRPPNRRKRWAMHLFR GRLFFHQPVWD
4347	12398	A	5260	215	384	

4348	12399	B	5261	347	1742	MPNTNGSIGHSPLSLSAQSVMEELNTAP VQESPPLAMPPGNHGLEVGSLAEVKEN PPFYGVIRWIGQPPGLNEVLAGELEDEC AGWYGWNLQEGTRYFTCALKKALFVK LKSCRPDSSSVLDTVLLRPKEKNDVEYY SETQELLRTEIVNPLRISAGQKVQDCYFY QIFMEKNEKVGVPITQQLLEWSFINSNLK FAEAPSCLIIQMFRFGKDFKLFKKIFPSLE LNITDLEDTPRQCRICGGLAMYECREK YDDPDISAGKIKQFCKTCNTQVHLHPKR LNHKYNPVSPLKDLPDWDWRHGCIPCQ NMELFAVLCIETSHYVAFVKYKDDSA WLFFDSMADRDESNNFEVQITGVIGKGK ETEGRVLTLLIRAGSSVHVHCRQWMSL W*
4349	12400	A	5262	1	1547	PVQESPPLAMPPGNHGLEVGSLAEVKE NPPFYGVIRWIGQPPGLNEVLAGELEDE CAGCTDGTFRGTRYFTCALKKALFVKL KSCRPDSTRFASLQPVSNQIERCNSLAIWE AYLSEVVEENTPTQKWEKEGLEIMIGWKK KGIQGHYNSCYLDSTLFCLEAFSSVLDTV LLRPKEKNDVEYYSETQELLRTEIVNPLR IYGYVCATKIMKLRLKILEKVEAASGFTSE EKDPEEFLNLFHHLRVEPLLKIRSAGQK VQDCYFYQIFMGKK*GKLGVPITISGSC*E WSFINSNLKFAEAPSCLIIQMFRFGKDF KLFKKIFPSLELNITDLEDTPRQCRICG GLAMYECRECYDDPDISAGKIKQFCKTC NTQVHLHPKRLNHNKYNPVSPLKDLPDW EIHARGCIPCQNMELFAVLCIETSHYVAF VKYKDDSAWLFFDSMADRGGQNG FNIPQVTPCEVGEYLEDVSWKTLHSLG LPGESQGCARRLLCDAIYVPCTQSPTMS LYK
4350	12401	A	5263	29	258	LRKYHATDLIS*GSVVGEFDCCF\SFLDG SLEDAVDGLL\ALQPHKEQYKEFQDLN QEVMLNDDILKVSTFSQKLD
4351	12402	A	5264	98	497	THENNYNEKKDEIKIFKISLQISAEFFP FRRWKSCLCCPRLGVQWHDLG\SLQPPT SP/GFKRFSGLKLP/RAAWIYRYVPITSG* FLYFQ*RRGFTHVG\QADLDLLTSGDPPV WASQSAGITGVSHHAQPPYC
4352	12403	A	5265	156	1047	VPAGEARVQWHDLGSLQPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDRKDDRKKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSQKTLSTS SIQNEIPKKKSKFESITNGDSFSPDLALD SPGTDHFVIAQLKEEVATLKKMLHQKD QMLEKEKKITELKADFQYQESQMRAC MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4353	12404	A	5266	156	960	VPAGEARVQWHDLGSLQPPPPGSSDSP ASSSRVAGITGIKTNTICKKCAQNVQLYG TPKPCQYCNIAAFIGNKCQRCTNSEKKY GPPYSCEQCKQQCAFDRKDDRKKVDGK LLCWLCTLSYKRVLQKTKEQRKHLSSSS RAGHQEKEQYSRLSGGGHYNSFSPDLAL DSPGTDHFVIAQLKEEVATLKKMLHQK QMLEKEKKITELKADFQYQESQMRAC MNQMEKTHKEVTEQLQAKNRELLKQA AALSKSKKSEKSGAITSP
4354	12405	A	5267	4	496	DGFPSCCQAGVQ*HDLGSRQPPPPGSSD SPASASRVAGTTGMHH*SRDVLIRILELE EGLELCPHFSVRKLPKTGQILTLMLSLAP VKLAPQPKLSWMELTRTQQAVPSPFGR WGGIGRRKVLVPIAADGWASGQARGLL GGSGKGEGKATGCEREGLCLLQG

4355	12406	C	5268	190	435	
4356	12407	A	5269	114	267	QLYINHTPPPLSKSKEREMDKKDLKSR TLKQKQKPLVNVVHNSWF*DHSN
4357	12408	A	527	31	332	
4358	12409	A	5270	1	1071	
4359	12410	A	5271	1	1231	GRFLCCMLETVTRWHSRATYEKECGN YPGFLTILRATGFDGGNKADQLDYENFR HVVHKWHYKLTAKSVHCLETGEYTHIR NILIVLTKILPWYPKVLNLGQALERRVHK ICQEEKEKRPDLALAMGYKIIF*CDLQ D*MTEGF*RL*NVLQC*SLSSAFRRLWEI MRSCFHRLVRVTTSDYQLPVYTG**FF*S HV*YFLIGRKYNFIIIVNRSSRVKKKKPS* FKD*FIGKL*FLRKLGLV*KPSRTY*KWV FFNSLEPHSRMNNLLILFLKTSCLCFLIW VCIFKHFVRLSSYSGQLKK*EKSP*YPEN EFPSQRPPPRNAVAISVQNGP*GGGPPSS SIGSASKDESSTEETDKSRERSQCGVKA VNKASSTPKGNSSNGSGSNSNKAVKE NDKEKGKEK
4360	12411	A	5272	2	3383	ITDQVLLPSLSLMDCNACMSEELWGMF KTFPYQHRYRLYGQWKNETYNSHPLL KVKAQTIDRAKYIMKRLTKENVKPSGRQ IGKLSHSNPTILFDYVCFEILSQIOKYDNL ITPVVDSLKYLTSLNYDVLACILSNCHIEA LANPEKERMKHDDTTISSWLQSLASFCG AVFRKYPIDLAGLLQYVANQLKAGKSF DLLILKEVVQKMAGIEITEEMTMEQLEA MTGGEQLKAEGGYFGQIRNTKKSSQRL KDA
4361	12412	A	5273	442	1457	KHFLYIYAQMNCFSRLRLKKKKKKKNQLL LQVFSSADE*GSSSSSSSSSGHKKRHHKHK RNRSESSRRSSRRSSRASSNQIDQNRER* VLPSSS*YFSIFSFP*TRSGRKLKGQDR LQYEKTQIKEKDRCPLSSSSLEIPDDFGG RSEDPRDFYNSYKTQAGSSKTEKPYKSE DIFPARRNSSDSFCRNSEAKIYGYRRFEK DIEGRKEHYRRWEPGSRVHSTSPASSEY SWKSVEKYKKYAHSGSRDFSRHEQRYR LNTNQGEYEREDNYGEDIKTEVPEEDAL SSKEHSESSVK/NKFTSEFTEYI*SDS*I*K RKRK*GQKINTPKDIGHPLQNAH
4362	12413	A	5274	2	457	KLIFFPR/KPSAPOEGRQFC*KIGNRPTQL TGPVMPVRNVYKKEKARVITEKEKNF QSPCLVFMARAK\ARL\FGIRAKKSPRK PQNQDVEKEKIKTLPGNFEISLAVMPGSP TWCVSVGTTWALGWGFTACDFLLPRGF GAFLKRQVQAPG
4363	12414	C	5275	27	158	MHSKPTGQVSWLGMTTASLPGTNASSM WMPWRLEDHSNLDALP*
4364	12415	A	5276	1	320	
4365	12416	A	5277	100	659	CPLVIRSCSSALWDIETGQQTTFGTGHTG DVMSLSLAPDTRLFVSGACDASAKLWD VYSQCFFLSVYMMS*FAFSQFFPNNGNA FATGSDDATCRLFDLRADQELMTLTPHD NIICGITSVSFSKSGRLLLAGYDDFNCNV WDALKADRAGVLG\HDNRVSLGVT DGM\AVATGSWDSFLKIWN
4366	12417	A	5278	16	495	AFSAPDTRLFVSGACNASAKLWNVGE GMCGQTFTG\HESDINA\ICFFPNNGNAFAT GS\DDATCRLFDLRADQELMTYPHDNII CGITSVSFSKSGRLPPGMGTTFNFCNVW DALKSRTGQVFLAG\HDNRQPAWGV D\DGMA\AVATGSWDSFPQDLGN
4367	12418	A	5279	5	108	SRGFTLLARLVLS*PQ/CDPPLPLASQSA GI/TRLGMSYHA*PIIIFETRSTQDG/G VQ*CNHGILLQPWHPGLKESSCLSLPG/G HAPPHLANFIFCRNRVSLCCSGWS*TSSD

					PPLPLASQSAGIIGWV
4368	12419	A	528	27	178
4369	12420	A	5280	1	458
4370	12421	B	5281	403	629
					XVHLVKASCQACGQLDRVRKQVVNIPS FIVRLDSQKHIDFSLRSPYGGGRPGRVKR KNAKKGQGGAGAGDDEED*
4371	12422	A	5282	1	637
					PVARSWVCRKTYGDPRGGPFEEK\SRLDQ \ELKLIGGVWGSGTKREVL\RVKFTLAQD SAKAAPGNWLT\LDKDP\TGVL\FERQTP LLR\RGLVPQLGCWDEGQKMKL\DYIPG P*RLEDFFRET\PKTQV\FQSLGLAKSIHQ PRFACLGSRQRHIRVRK\QV\VNIPSFIVR\ LDSQKHIDFSLRSPYGGGRPA\RVKRKN AKKGQGGAGAGDDEED
4372	12423	A	5283	3	295
					VCIGVLLCCLGCGVRWHDHASL*P*PPG LKRSSHLSLLSTWDHRHMLTHPLNFFIV EPRSHYVAQTGLKLLGSSSPASASQSAR ITGVSHHTQSKK*FLFVEPRSHYVAQTGL KLLGSSSPASASQSARITGVSHHTQSKK
4373	12424	A	5284	2	284
4374	12425	A	5285	1	785
					MTGLALLYSGVFVAFWACALAVACWV NSGTDWAGGIWLERLLPRSLGFGLAGG DPACAGVCYTIFDLGFRFDVAWFLTETS PFMWSNLG\GLAISLSVVGAAWGHSLT GSSIHVVEGS*KAPRDSKTKNL\VSIFCE AV\YGIIMGNCSLSNMT\EPFASATEPQG HRQFGN*PWQGYSHGLGAGLHRKPCLN LFCGV\CVGIVGTWGPCWQMPQNPTASL CKRFSIVEIFWQAPLALFGVIGRKFFKTS MSERWVTR
4375	12426	A	5286	2	350
4376	12427	A	5287	1	999
					NLLKTHKFLLGQDEDSLHSPVAQMGN YQEYLKTLASPLREIDPDQPKRLHTFGNP FKQDKKGMIDEADEFVAGPQNKVKRP GEPNMSYVTKRRRSMSLLLRKPQTPTC NNHVGGKGPPSASWFPSPYNLKPTLVH TDATIIHDGHEEKMEHQITPDGFLSKSA PSELINMTGDLMPNQVDSLDDFTSLSK DGLIQNLVVTHL*EEPKTAASP*MTKKT Q*HLLWELCQIHYKSLLLWHKE/VNADI KHQLMKEVRKFGRKYERIFILLEEVQGP LEMKKQFVEFTIKEAARFKRRVLIQYLE KVLEKINSHHLHNNISHINSRSSC
4377	12428	A	5288	329	661
					ITLSLLSFFNLRPSFALLAQAGVHWRDL SLQPPPLRFK*FSYLKSPRSWDYGHAPP RPANSVLLVETGSLHVSQGLLPTSGDP PASASQSAGITGV\TNCARPPSLFS
4378	12429	A	5289	46	554
					NKTRKDPFPPTPAHGH\TPPTPSLFPG/C SAHGHLKPRGSHCDQPPSTCRPPVQSPV AHASQVAGRTWA*KRALHLPGGGVKRR GTGSPKAPRSGCGLPYKLGSTARAAGSC SPAE/EPETFSPQGQPLPVNKGKLRVGGQ PSFQCAPRDSCSR\YFQGEEQGRAIEHQI P
4379	12430	B	529	110	719
					XGRQHQRWHE\TPDIKLF\GK\WSTDDVQ INDISLQDYIAVKEKYAKYLPHSAGRYA AKRFRKAQCPIVERLTNSMMMHGRNNG QEAHDC\AHRQACLRDHNTCSQAKNLLE VRGTAINSGPREDSTRIGRAGTVRRQAV DVSP\LRVNQAIWLLCTGAREAAFRNIK TIAECLADELINAAGSSNSYAINKKDEL ERVAKSNR*
4380	12431	A	5290	228	386

4381	12432	A	5291	3	257	GPRERETGRTATAVEPDSCEERTYSNDT KRWCSHPGGNGGVPERQHLG*ATGSW GAKPLRLAAATRASGNPGHRSKLCLETI F
4382	12433	A	5292	3	1379	NEFFGEGKTLQAAARHFAAMKALQALQN EPIPERSPQNGESGKMDDDKDANKSEI SLVFEIALKRNPVSFEVIKESGPPHMK FVTRVSVGEFSAEGEGNSKKLSKKRAAT TVLQELKKLPPLPVVEKPKHFFKKRPKT IVKAGPEYQQGMNPIRSLAQIQQAKKEK EPDYVLLSERGMP*RREFVMQVKVGNE VATGTGPNKKAKKKK\NVAVAMLLQLG YKASINLQDQLEKTGENKGWSDPTPGFP EPTNNTPKGILHLSPDVYQEMEASHHKV TS/GHYSRLFVTQRYEPTFKLFSSVYLPH RIVQSTFARHLLMNGTSSTAEI GLKGSS PAIPLVPPVQPSKQLGIFSKGFAFRVHYC DRQKWQRVCDLSDISPCADGL/SHAIGSS IEASHDQAALSALKQFSEQGLDPIDGSM NIEKGSLEKQAKHLIKVDHNQAPPGSIA HDCKISNSAV
4383	12434	A	5293	7	351	SSTSLIRKMQIKTTRYQNIPNRMAKIKNA DNTKL/WSRILTNYWWEYRHLHK*KYV HKKTCNFMLIAALFIKFLKWKFKHSST GE*IKL*DRHMTEYY*AIKKAQATDRM QHE
4384	12435	A	5294	3	1585	GEPLI/LHHTTCH/NSKALIAFLAFLIIVTSI ALLVVL TNIDLHRKRSCNVDEQQELVE RYDESNLMNVQPIHADIMLETYHRRIA/D EGRLF LAEFQSIPRVFSKFIKEARKTHN QNK NRYVDILPYDYNRVELSEINGDAGS NYINASYIDGFEKPRKYIAAQGRDET DDFWRM IWEQKATVIVMVTRCEEGRNRN KCAEY WPSMEEGTRAFGECCCKDLTKH KRCPDYIIQKLNIVNKKKATGREVTHI QFTSWPDHGVPEDPHLLKLRRRVNAFS NFFSGPIVVHCSAGVGRGTGTIGIDAMLE GLEAENKVDVYGYVVKLRRQRCLMVQ VEVCSNL*DYSHFGFLDLNLFQVIIMIFF KNPNSSQPQTVDLFLKTKTW*SPWPML CIW
4385	12436	A	5295	1	1323	MEDSRKAQKRDTKIEREEQLYWPSRKS GKSKGDLVLHTTYKPSHSGGRAVSGLFG SPIPSLGSWTAFLDPPWARVEPIALKGLT QRSFNGGGHRVCFVIPPAPPDGSEQKKR LCSFRRKEQSLPGNLENSFGSCPRLSRQY VYESARTTALMRLGCPLKQIQLISQDLSP FEYRESLPMKDKQNKHQIRISLINTIQETI ISPNELSKSPGTNSGETEIHDLSDREFKIA VLRTLKEIQDNTEKEFKLYQINLTKRIEII KKNQAEILELRNAIGIQKNASQSFSNRNG REEEIISELENRLFENTQRRQNKRIKNNK ACLQDLEYRLKRANLRVIGLKEEVEKAI GVESLFGIITENFPSLEQDINIQQVEGYG TPSRFPKKTTSRHLIVKLPKIRDKERILK VTRENKQVT*NGTHICLAADFSVVAL*A RREWH
4386	12437	A	5297	3	226	GSGCEQGCPPGRYGPGEQLCGCLNGGS CDAATGACRCPTGFLGTDNLTCPPGRF GPNCTHVC GCGQGAACDPVTGTCLCPP GRAGVRCERGCPQNRFGVGEHTCSCR NGGLCHASNGSCSCLGWTGRHCELAC PPGRYGAACHLECSCHNNSTCEPATGTC RCGPGFYQACEHPCPPGFHAGCQGL CRCQH GAPCDPISGRCLCPAGFHGHFCE RGCEPGSFGEGCHQRCDG G GAPCDPV TGLCLCPPGRSGATCNLDCRRGQFGPSC TLHCDCGGGADCDPVSGQCHCVDGYM GPTCREVGP SGSPRTRP*PRGPAAAPLGS

						SGRTATSPVRRASAPTCTCVGVGRGR PATL
4387	12438	A	5298	152	990	LLLIHSEKPFEDNLYGKALSSNSHLHGP RRLCT/GENPEE/CEQL*KAFSAISRSDSCD SSH*GRKPVKVSEGFSDSHPLRHTGNHT MEQHSEMRNTLQOKCSHY*ANYSVVFC S*LWESLECSIGF*GDLRINSGENAPFEHH QYWRAFWFSTFVKET/W*SIHTEK/PWK F*EEKAFSDASVLGK/HMELLPGCKTYE YINIGKFFSDSSLSCI/WRELTWRNP*ECN QC*DA/FSLNSSLG/HQFSLGTTKYNHC FECGISFIQCLICRLDCWLNFFSLFFF
4388	12439	A	5299	1	181	EIEDLN*TITQLYLT*HLYRTLHRTTPAYK FFSSVHETFSRIDH/VLEHKTSLNEF*RLK
4389	12440	A	530	443	565	QPGFGAGARAPNILTHKHLG/LLEFKTTG AQQQGF*LNESSF
4390	12441	A	5300	1	170	PPPPFPLIPD*G*PPSPLSPGQLQSAPP VLPDITLSYPGRRPVLGLSLMD
4391	12442	A	5301	846	1094	IPAL/P*FYFIFYLNLKYLFFFD/DGVL LCCPAWSAVA*SRLTATFASQVVKRFSCL SLLSSWYYRSVP/SSLANFCIFSRDG/SFIV LAMLVLNS*PQVILLPWPPKVL*LPIMEC SSLTIAHCSLNLPGTSNPPASASK
4392	12443	A	5302	19	391	AYPLRGGRDFLRGGPSRSVLSVVPAR V*RRRRRLREEARGAMTSASTKVGEIFS AAGAAFTKLGLTMQLHPVADSSPAGA KWTEIEIEMLRRAAVKRFGDDLNHISCVI KGPDKGHCEQTQGI
4393	12444	A	5303	1	338	SLIFSDSLSSISGTNTLAAFLSWMLPYIPW ILQARPALGLLHLLAACNVVGQSAT*PS PSLPLGLCSSHSQ*GLF*PPVFKISPLTD NPNPFDLHLMDFIQKTIKISL
4394	12445	A	5304	3	180	
4395	12446	A	5305	1	518	RAAQSPCSPWSRLACSGGGGVIREEARG AMTSASTKVGEIFSAAGAAFTKLGLTM QLHPVADSSPAGAKWTETEIEM/PEGCC EAIWGRS*SHQLCHQGTDSGPDKGHC*N ARYIEDFWASPPFA*V/TPRKGPRRWASG VVFVHLLQLAPPPQLPVFPEGRGSPPIKE TERLM
4396	12447	A	5306	1	705	GAKFQRTSRVPRTTGPGQLKCLEDKVS LETDELDEEKNTEVLLTDR/LNRGRDQVD QLRTELMQERS/SSGRTWKCDKISLERQ NKDLKTRLASSEG/SPESLVPASLSLSPRI SCCRERLPAEQRVKTVLRSTNRKLERKV N*LSLQIEDERHHVSDTKDQLSLRVKAL KRQVDEAKEEIERLDGLR/KKAQREVEE QHEVNEQLQARIKSLEKDSWRK/GFPLS C*VSSQKRRAELR
4397	12448	A	5307	831	1159	DVKSksFFFFLrWsl/NPFAQAGV*WHD LSSLQPLPHRFKQFCSLLSS*DYRRVPP *LANFLYF**RQGFTMLARLASNS*PHDP PASASQSAGITGMSHRTQKKQIS
4398	12449	A	5308	296	526	FNCCEEEKFKKKPCFVSFLEGLERG*VK CQEHIPDTH***LLGLSEQINSDSRLKEL NHFILFLEQLTCPPHSRER

4399	12450	A	5309	5424	5957	YNFFLNEMGSCSVAQAGVQWHNHSSLQ P*TLG*SSYHPASAS*VAGTVCTCHHVQL VF/IFFFLR*SFALVAQAGVQWCDLGSLP PPPSGFERFSCGLPSSWDYRRPPLHLVN FFFLYF**RWGFTMLARLVNSNS*PHDHP ASASQSAGITGMSHHVWLNINFFFNCKSLI FSNVFRN
4400	12451	A	531	82	986	TMNTRNRGVNSGLGASPASRPTDRDPDP SGRQGELSPVEDQREGLEAAPKGPSRES VVHAGQRRTSAYTLIAPNINRRNEIQRIA EELANLEKWKEQNRAPVHLVPRRLG GSQSETEVRQKQQLQLMQSKYKQKLKR EESVRIKKEAEEAELQKMKAIQREKSNK LEEKRLQENLRREAFREHQYKTAEFL /RQTEHRIARQKCLSKCCLWPTILNMGQ KLGLQDSLKAEENRKLQKMKDEQHOK SELLELKRQQEQERAKIHQTEHRRVNN AFLDRL/RRQKSTRWPRAIWRLLYE
4401	12452	A	5310	2	237	IKRFSYLSLPNSWDYKVPSSMPG*FLYF* LR*GFTNVGQAGFEIP*QNDSNPLSSQS AGITGMSH\HNRPLFYFLK
4402	12453	A	5311	36	386	LNIHRKFMLLYYH*LLLFLAFHF*DRVS CHPGWSTVNSQGFTAAALTYWVK*SS CFNPPCVSWEPRGACHHALANFLIFCKN QVSLCLPRLVSNS\WVQAILPSWPPRA GIYGV
4403	12454	A	5312	1	310	FFFFET/ESHVAQAGVQWGDGLL*SSP P/GSSDSPASAS*ASGTTGA/QHHAQLIFV FSVETGFHPVSQDGLDLLTS*SARLSLPK SWDYRHEPLAPGLGFTF
4404	12455	A	5313	598	882	LIFFLSFFFFSFFFFFFFFFFFFFFFFFFFF FFFFFLLLLLLLLLLLLLFFFFFFFFFFFF LRQSL/DSVAQAGVQWRHLGSLQALPPR FAP
4405	12456	A	5314	439	1169	QSGHRYLYNIIQVLCFTIFLFLRQDLAV L/TQAGVQWC/DSWQPRPPGLK\GTPTSA AQVAGTTGMCHH\TR*IFFFFFFFFFFFFF FFFFFFFFFFFFLRQSL/DSVAQAGVQWR NLGSLQPLPPRFKRFSCGLPSSWDYRN APHPANCCIF/M*RRGFTMLAKLVLNSG DSPASASQSAGIIGVSHHARPPRYFKKYI FCRDGGLTMLLGWS*TPGLKQSSHLGFP NFWDYRCEPPCLATLFI
4406	12457	A	5315	1	222	ETGSHFVTQAGV*WCNLGLLQPLTPGLK QFSHLSPSSWDHKCVSPSPANSFCTLG K*RRVSTMLPPGWS\QTP
4407	12458	A	5316	1	234	LRQSFAGWPRLECNGTIPAYCNLHLLGS SNPPASSPR\RLIFVVLVEMRFLYA*AG LELLSSDLPPWHRKVLGLQA
4408	12459	A	5317	1	196	FFLINLTLLIVTAQFIN*LDFIDSYSTICPK PPEYTFFSRA/PNGFTTKDHILGFKISLN KYKSI
4409	12460	A	5318	1	477	SCWSPV\WGHPDRDREPPPS*LGIQSSPG VPQAALPPWPSPASHQASATWAVLPLPP LQGPAREPPCPPHLRRHVQPTKTS\AVSIL SAPPLPPG*DLPEASFSQWACKGINKCL QGLGLVCRRTEHKDLGLGLFGPLVLAM VEVRGVDLTENNSGASVPRGR
4410	12461	A	5319	139	398	FYFFFYFLRQSCSVNQAGVQ*HCLNSL QPPPPGFKRFSCLSLPSRWDYKCPPPCTP NFCVFS/EMGFLHVGQAGLELMTSGDPP GFG

4411	12462	A	532	122	1340	EAASKTTKDNICSWKDDTIGCKEMPTSE NCPSFALHQKISDRNHGECREYGGKTLCO DSKPVQHERIHSSEKPNRCKECGKNFSN GHQLTIHQRLHVGEKPYKYECKGKAFIS GSAFVKHGRIHTGEKPLKCKQCGKTISG SYQLTVHKSIIHTGKKPYECGECGKAFLV YGKLTRHQSTHTGEKPFGECECGKAFST FSYLVQHQRHTSEKPYECKECGKAFSTS SPLAKHQRIHTGEKPYECKECGKSFTVY GOLTRHQSIHTGEKPFESHAIEIKPYRCK ECGRFSTRASYLVQHGRLHTGEKPYECK ECGKAFSTGSYLVQHQRHTGEKPYECK ECGKAFISRHQLTVHQRVHTGEKPYECK ECGKAFRVHVHLTQHRKIHTDVKPYEC KECGKTFSRASYL
4412	12463	A	5320	11	137	RWGFTKLPRLVSNWPQAILSPWLKVL NNHREALYFSLYYISKYTEGQFRNRLYP GTICQDYLWRYLLFLFIFETESCTVIRLEC SGSLQPPPPRFKQFTCLRLHSSWDYRVRP PPWPINFCSRVTGFFHHVGGQGLDLV DLCDPPASASQSAITGREHPAPGTYLW EGFKKSFKSRA*RSTLFFPLLH
4413	12464	A	5321	1	293	LERMSFGHIQTKEDILQENTIFIATEVQIQ PNPD*TPEAKAFTRRCLSYRKEDRIDVH QLTCDPYLMPHMRMSVSTCSPAGAAIAS TSGASSSSSSN
4414	12465	A	5322	3	291	
4415	12466	A	5323	14	943	HRILEPLIFHFFFFESSAPPQPELLY/PASL TLPASPGREEVYPLPARLPSLPRWEPLQV WLALGAVKLPLSPWSPNGLGKPPGT PKRRGALFCHMPGILTP/WMPGARWTKP PANPPST/TSPVPPKDG*KLQPGGLRGKP GPERGWNPPCP/RSPRPYLLC*PQTLPR A*CFPIPKMSFTGHSPCRASLGHLE/VGH GIPLWPRVCQRRKSRAFFVLFFFKGACLF NVNNRKP*YLCNTE*YFNHVHLDVHNI FITKQQUEST*PWLPRGVSWLGAGGGYQG AWDREAPPPIPKLPPTLASRMRSCHL
4416	12467	A	5324	12	486	
4417	12468	A	5325	51	390	DGVLPSLLGWEVMCGSSAPLLRSPVDR DGMWGVCHPAGWSIVAQS/QFTAASNLL ASRAT/LSLPSSWDYRRVPPHSAHFKFFL *KWGLAMLPRVLNSWSQVILLQPPKV LEL
4418	12469	A	5326	279	380	
4419	12470	A	5327	618	818	
4420	12471	A	5328	1	197	
4421	12472	A	5329	2	498	CPRMTPKDFQ*PVL/VVTNLLGHVIDIKW MSIAFINDRAWPSAFVSDENHARIQCDG QHRFEVSSELPEDETVDVSTVLDLDHQG LGPPPPPAEPDPLQLLLQQLFGLGQLSCV VGPGPWRGLSSARDKQIMVSIHKVKR PQSPLRAVYWPLRYCILPSRRATVN
4422	12473	A	533	456	824	DRVLSLPRLECSGVILAQCNLHLP/GFNR FSVTLGLPSRLGITGHAPLCLGQFFVFLVE DGGFHHVGQAGLELLTSSDPPTSAVPKC RDYRHEPLRLACCSFLKQENIHINCWVRI YIRIFQTN
4423	12474	A	5330	600	811	PIWLSLSPWHFINQRKEKKK**DIVKREK PLMGLSTLTSI*MQSKPRKEHQINLKSEI K*LQDLSQYFGR
4424	12475	A	5331	1	75	FFFFFFFFFKLAMFVFILFFIFSK*KEIVLS QFLFVFL/YLFYVFTSLKVALKISRDIKST FLRVALFFFLNNSWEFCGSTAFPSVSML CMF*LLL*FFFFFFFFFKLAMFVFILFFIF SK

4425	12476	A	5332	949	1711	VTIPLIPDLKGSSCVGPPKP*DCRHWT PC LTLIYFFFFKVESPSVAHAGVQWHDLS SSL LTLSPDQV/HSPVSAF*VAGIQG/MHH HA RL/IFFFFFFLRQSL/SSVAQAREQW CYH GSLQPPPSGFKRFSCLSLPSSWDYR CPP HLA/DFVFLIEMGFTMLTRLVSNS*P Q/C DLPASASQTAWITGLSHRAWLNFFC IFSI YGVSPCWPGWSLTPDLK*SACLSLP* CW DYKCEPPCPAQFTFIRKDSFADVYCS VS
4426	12477	C	5333	11	154	MESRSVARLECNAGISAHCNHLHLLG SND SPASASRVAGTTGTATTPG*
4427	12478	C	5334	163	270	MNMESLFYCFNADILIKQDYFHHQHL YIYTKPV*
4428	12479	A	5335	92	404	WLQICVSGCICT*WALYICINVVVVK VV LFYEDVCIAVK*AFHFIHNLMCVYIC M CVCVWNIEGLYIPQRYIHMAVLLHRS N SQTGPSIRYKFKISFIGFI
4429	12480	A	5336	2	1100	FALAARLQEFGTRKYFTESGLVGLLE QA AASFMSMAGMYEAVNEVYKVLPIHEAN R DAKKLSTIHGKLQEAFSKIVHQSTGWER MFGTYFRVGFYGTGFDLDEQEFVYKE PAITKLAEISHRLEGFYGERFGEDVVE VI KDSNPVDKCKLDPNKAYIQITYVEPY FD TYEMKDRITYFRQKLQSSVRFMCTPFT LDGRAHGGTSMEQFQKGRPNLDYVSCL FPYIKTRG/PMSLIKKRSSLHPFEV AIED MQKKTQELAFATHQDPADPKMLQMV L QG\SVGH\QVNQGPLGSCPGFFCSGNT ** PKALSDIH*KLATLAFKDFTKRCEDAL R KNKSLIGPDQKEYQRELGEKLSSALKRA LPAT
4430	12481	A	5337	48	1057	RCWENCTSTCKTMKSDPYLR/PYTTIN SK WIKDLNVRPETIEENIGEFLDMITLGN D FLDITPKAQSTKTK/DKWDYIKPKSF/CT V KETVNKMKQ*PTD\W*KIFVRHIYKGL VSKIYKEFIQLNF*KWAKDLKRHFSEDD TQMANRYIKGCST*LIKEMMHFKNHSKY YLSPVRLAVIKKNKNNKC/W*WCGIKGT L/LHCWWECLVQPLWKTEWKFLRKIK LPYDPAIPLGIYSK*MKSPCKYICS/RV FIAALFIVA/K/TWRQLKCPLT/V*IRKLCI YMPYTPMEYYPPLKTKKNPTISCHLLPT WMGLKDTVLEISQTEKKILHNFTIYVES KKKI
4431	12482	A	5338	2	409	PLALALAMAYPSCPGDAHGP RPGLSP PS*PASVP/TSP/QSSA*FLCPQSY PVEGL TPRILPAGGGHVPCSRPSSSPGLASVSAP RWGALLPGPCPTSLSSGCRKGRASPRA HPPPTASLCTALWPPCFSP*PGVGLGNG LSLLPRRCTWPAAARSTVSSLLACLPNS PLNLLRDSSVLSHTQLRGSPHGFYPLEGA MFPAPALPPHQALPRYQPPGGELCCCLD HALLPSRDVGKGGPALELTHPPQQACV LRSGHLASRLHNL
4432	12483	A	5339	32	323	KFHLGGGGWFPPLFPGGGARGVGS*VR GFRPPWAPLNPFPFKPQNSPGLVVFAF RPSSSGG/PGPGNSPHPGGQGFG*QKFRP CPSAWGTKGGFP
4433	12484	A	534	1	2278	
4434	12485	A	5341	4	329	IIAHCKLKRPSNDPPQPPSSWDCRHAPP HPAN*FFF*EMGSCHVAQTSSQTPALNPS RYPPTSASQGAETVMASHCAQLYPCFLT KEK/FSHS*IRRLLSETSNGEY
4435	12486	A	5342	3	274	FQSQNIKLNLMGVLCFETEAHSVT*AG LQWLDLSSLQPPPGFKQ/FSCLSLSSW DYRSPRGPVNFICFSGDEVSPYWSGWS QTSCLK

4436	12487	A	5343	1	1075	MVDGTL L L L L L S E A L A L T Q T W A \ G S H S L K Y F H T S V S R P G R G E P R F I S V G Y V D D T Q F V R F D N D A A S P R M V P R A P \ W M E Q E G S E Y W D R E T R S \ A R D T A Q I F R V N L R T L A R L \ Y * Q S E R R P G S H T L \ Q W M H G \ C E L G P D \ N A S F R G Y E Q F A Y D G K D Y L T L N E D L R S W T A V D T A A Q I S E Q K S N D A S E A D H Q R P \ Y L Q A T F V D S F P K * L Y E G K E T F L H L E P P K T H V L H H P I S \ D H E A T L R C W A L G F \ Y P A E I L T W Q Q D G E G H T Q D T E L V E T R P A G D G T F Q \ K W A A V V V P S G E E Q R Y T C H V Q H E G L P E P V T L R W E A R F P S P P I \ L P S W A S L L G L V L L G S V V S E A V V A A V I W R K K S S G H F L P T G G K G G S Y F K G
4437	12488	A	5344	58	426	K L Q L L * F F F W F F F C L F T Y F L E T V E C S G A I I A H C S L K L L G S S H P P A S A S L V A K I T G A C H P A W L I * V V L I V L F K R K W Q S H L K L M V E K R F L S E G Q I L S V Y H F R V P L L Q N D R N L A Q I I L G R K R E M Y
4438	12489	A	5345	3	284	K K I L R K K I L R K S S V * I * D * S S Q P E N I P * K Q F L S N H P K C T I T L S M R N M S I M K K G G R I S E D F I K L F F P S L L S H L L V I E W G L Y I E I Y L T P P N N T F
4439	12490	A	5346	2	225	T L P C T L S T S S T P W S A S S Q E R E M S F G D G * P V G * P P L T A V P \ C C S V W G L R R L * G E R T K L G I G A A G G F H S Y D G N T Q T
4440	12491	A	5347	3	104	W S T V A R S * L T A T S C S F C L S P P S W D C R R V P P C L A \ S F H F Q Y I A L N N * A * A I I L P Q P S K V L G L * A S A L Q V A G T A G V Y H H A W
4441	12492	A	5348	2	392	T G K N E I Y C I C F I D L E Y Q * K I G L L L H I G D K E E Y S \ W N S G Y F I G Y C L E L P C P V V K V S G N * N D S I E A A V L M T P S K I K I * V T L Q S K E A S P I K V L T Q V I G D I K G I L E N G H Y K Y Q L * Q F F K L Q K G N D N H
4442	12493	A	5349	2	67	A A E D * H C P I A S E T Y K T I T E L W V T L P V E G K S V P F L I N T E A T H S T L P S F Q G C V S L A S I T V V G I D G Q A S K P L K T P Q L W C Q L G Q H S F M H S F L V I R T F P A P L L G R D I L T N L S A S L T I P G L E P H L I A A F C S S S K P P S H P P L V S L H L K P Q V * D R L G N L Q D H H R C F G
4443	12494	A	535	750	1053	P S T L S S L A \ S R H D D E A T R T S T S E G L E E G E V E \ G E T L L I V E S \ E D Q A S \ V D L \ S H D \ Q S G G I S L N S D E G D V S W M E E Q L S \ Y F C D K C Q K W I P A S K E L L K S F D L S I P V
4444	12495	A	5350	2	275	E T E S C S V A \ R L E C S G M I S A H C N L C L P D T G N S P A S A S * V A G I I G A C H H A Q L I F V F L V E T E F H H V F H H V G Q A S L E F L \ N L V I P P R P P K A L G L Q G
4445	12496	A	5351	3	1031	S S A P E A A K K P T P C H R C R G L V D K F N Q G M V D T A K K N F G G G N T A W E E K T L S K Y E S S E I R L L E I L E G L C E S S D F E C N Q M L E A Q E E H L E A W W L Q L K S E Y P D L F E W F C V K T L K V C C V P G T Y G P D C L A C Q G G S Q R P \ C S G N G H C S \ G D G S R Q G D G S C R C H M G Y Q G P L C I D C M D R L L Q L R S R N E T H S I C T A \ C D E S C K \ T C F G P * P T \ G L R R S C E V G \ W V L D E G A C V D V E K C A A Q T P P C S A A Q F C K N A N G S Y T C E E G D S S W V G C P G K G P G N C K Q C I S G Y A R E H G Q C A D V E R V P H * P E K T L C E E K T K T C Y N T P G \ S Y \ V C V C P D G F E E T \ R R C L C A A G R R L K P Q K G E S P T Q L P L P
4446	12497	A	5352	206	330	K M L Q L A L Q S C I K V R T L N S R H L G A G V T A H E E * C P C C H P M I K Q
4447	12498	A	5353	1	8271	
4448	12499	A	5354	2	10028	